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AN EVALUATION OF PERSONAL-USE TYPEWRITING PROGRAMS
IN SELECTED SECONDARY SCHOOLS THROUGHOUT NEW ENGLAND

Submitted by

Meredith F. Drew

(B. S., Salem State Teachers College, 1947)

In Partial Fulfillment of the Requirements for the Degree Master of Education

1948

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Gift of M.F. Drew School of Education June 28, 1948 29634

TABLE OF CONTENTS

CHAPTER	
I. STATEMENT OF THE PROBLEM AND DEFINITION OF TERMS	1
II. SUMMARY OF PREVIOUS RESEARCH	12
III. PROCEDURES USED IN GATHERING DATA	20
IV. RESULTS OF THE SURVEY	25
V. SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS	63
APPENDIX	
BIBLIOGRAPHY	

LIST OF TABLES

TABLE		PAGE
I	ELECTIVE AND REQUIRED TYPEWRITING	14
II	NEW ENGLAND STATES IN SURVEY	24
III	SECONDARY SCHOOL RESPONSE TO SURVEY	25
IA	VARIOUS TITLES DENOTING PERSONAL-USE TYPEWRITING COURSES	27
Δ	YEAR IN WHICH PERSONAL-USE TYPEWRITING IS OFFERED TO NON-BUSINESS COURSE STUDENTS	29
VI	YEAR IN WHICH IT WAS DEEMED ADVISABLE TO OFFER A PERSONAL-USE TYPEWRITING COURSE	29
VII	SPEED FACTOR IN PERSONAL-USE TYPEWRITING	31
VIII	ACCURACY FACTOR IN PERSONAL-USE TYPEWRITING	32
IX	LENGTH AND NUMBER OF CLASS PERIODS PER WEEK (SINGLE OR DOUBLE) BETWEEN BUSINESS AND NON-BUSINESS COURSE TYPEWRITING CLASSES	34
X	ACADEMIC CREDIT GRANTED FOR PERSONAL-USE TYPEWRITING	37
XI	REASONS FOR OFFERING PERSONAL-USE TYPEWRITING COURSES	38
XII	METHOD OF DETERMINING THE VALUE OF PERSONAL-USE TYPEWRITING COURSES IN SELECTED SECONDARY SCHOOLS	40
XIII	TABULATION OF FIGURES AND PERCENTAGES OF ALL CONTENT MATERIAL ITEMS INCLUDED IN THE QUESTIONNAIRE	44
XIV	NECESSARY CONTENT MATERIAL ITEMS RATED 80 TO 100 PER CENT	49
XV	COMPARISON BETWEEN NECESSARY CONTENT MATERIAL ITEMS RATED 80 TO 100 PER CENT, AND THE SAME ITEMS CLASSIFIED AS UN- NECESSARY	50
XVI	NECESSARY CONTENT MATERIAL ITEMS RATED 50 TO 80 PER CENT	51
XVII	COMPARISON BETWEEN NECESSARY CONTENT MATERIAL ITEMS RATED 50 TO 80 PER CENT, AND THE SAME ITEMS CLASSIFIED AS UNNECESSARY	52
XVIII	COMPARISON BETWEEN FOUR NECESSARY CONTENT MATERIAL ITEMS AND THE SAME ITEMS CLASSIFIED AS UNNECESSARY	53

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LIST OF TABLES (Concluded)

TABLE		PAGE
XIX	TOTAL PERCENTAGES OF NECESSARY CONTENT MATERIAL AND OPTIONAL COLUMNS VERSUS PERCENTAGES OF UNNECESSARY CONTENT MATERIAL COLUMN	54
XX	UNNECESSARY CONTENT MATERIAL RATED 40 PER CENT OR ABOVE	54
XX	COMPARISON BETWEEN FOUR UNNECESSARY CONTENT MATERIAL ITEMS AND THE SAME ITEMS CLASSIFIED AS NECESSARY	55
XXII	COMPARISON BETWEEN UNNECESSARY CONTENT MATERIAL ITEMS RATED 30 TO 39 PER CENT INCLUSIVE AND THE SAME ITEMS CLASSIFIED NECESSARY	55
IIIXX	CONTENT MATERIAL ITEMS REPRESENTING A DICHOTOMOUS SITUATION	57
XXIA	NECESSARY CONTENT MATERIAL AND OPTIONAL MATERIAL COLUMNS TOTALED AND THE UNNECESSARY FIGURES FOR THE SAME ITEMS	58
VXX	A COMPLETE TABULATION OF THE 60 CONTENT MATERIAL ITEMS RATED NECESSARY OR UNNECESSARY ACCORDING TO THE DATA COMPILED	60

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CHAPTER I

STATEMENT OF THE PROBLEM AND DEFINITION OF TERMS

The problem of this thesis is an evaluation of personal-use type-writing programs in selected secondary schools throughout New England. It was deemed advisable to conduct this particular study at the present time, in that so many variables seem to affect the introduction, continuation, and evaluation of typewriting courses for those other than business students. This study will attempt to evaluate the trend of personal-use typewriting and its effect in the secondary school.

This study has for its purpose the following major objectives:

- 1. To determine the value of a typewriting program for non-business course students;
 - 2. To determine the placement of a personal-use typewriting course in public secondary schools:
- 3. To determine the differences, if any, in the manner in which the subject is offered, and the content of the course between business and non-business typewriting courses.

DEFINITIONS OF TERMS USED

In order to facilitate an understanding of the terms used in this study, a definition of each term relevant to this thesis is presented.

These definitions will follow throughout the study.

PERSONAL-USE TYPEWRITING

*Typewriting taught from the point of view of its usefulness to the average person as is personal business and informal social correspondence and in writing school themes, without regard for its vocational appli-

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cations; usually taught in high school and college as a comparatively labort course of one or two semesters."

BUSINESS TYPEWRITING (Defined by Good as Vocational Typewriting)

"Typewriting taught with a view to its use for business or professional purposes, as in the occupation of stenographer, or typist;
included intensive training in basic typing skills and instruction and
practice in business and legal forms; usually taught in secondary schools
as a relatively long course of two to four semesters and in colleges for
two semesters."

SECONDARY SCHOOLS (Defined by Good under title of High School)

"The school division following the elementary school, comprising 5 most often grades 9-12 or grades 7-12."

For the purpose of this study, secondary education will comprise grades 9-12 in that this study is not concerned with typewriting on the junior high school level.

THE PURPOSE OF THE STUDY

It has been stated that typewriting is a paramount factor in education, and that instruction in that skill should not be confined to business students. Various reasons are advanced along that line of thought.

Good, Carter V. Dictionary of Education. McGraw-Hill Book Company, Inc., New York and London, 1945, p. 434.

Loc. cit.

Ibid, p. 201.

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Because typewriting is being introduced on a personal-use basis in some schools today, Burns states that, "The growth of commercial courses in secondary schools, and the constant attempt to reconcile these courses with educational purpose would seem to indicate that education has adapted the teaching of typewriting as a means of educating pupils rather than as an end to be sought in itself."

Reynolds contributes to this controversy by writing that, "There is no question as to the positive influence of the typewriter on the process of education; it has been demonstrated by actual practice."

The value of personal-use typewriting was greatly substantiated through a survey of typewriting courses of study from various secondary schools in the United States. The following are excerpts from these manuals and courses of study.

"Since typewriting has both vocational and personal use values, it is a desirable elective for any high school student.

The ability to use a typewriter with a reasonable degree of skill and accuracy is also useful in performing the duties of many clerical occupations and for the transaction of personal business. For this reason as many pupils as can be accommodated should be allowed to enroll in the typewriting courses.

Burns, M. A. "Typewriter in Business." Unpublished Master's Thesis.
Boston University, College of Business Administration, 1933. p. 76.

Reynolds, R. G. "The Typewriter—An Aid to Self-Expression." Child
Welfare. September, 1933. 23:8-11.

Publication No. 187. State Superintendent of Public Instruction, Raleigh, North Carolina. p. 15.

Publication No. 16. Los Angeles City School District,
Los Angeles, California, 1934. p. 1.

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The committee . . . recommends that typewriting be offered for one unit of credit, the first half unit of which shall emphasize typewriting for personal use; the second half shall emphasize typewriting for clerical use.

Typewriting is an art which has a wide application and use in the modern world . . . Hence it is not only a constant for the commercial course but may be elected by pupils in general as freely as facilities and teaching force will permit. 2

High schools would be rendering a valuable service to their pupils if they offered as an elective a year of type-writing to all pupils.

From the above statements, it may be assumed that personal-use typewriting does have a very definite place in the curriculums of both business and non-business students.

The title of a personal-use typewriting course is not consistent in many schools. The usual caption under which this course is offered is non-vocational typewriting. However, personal typewriting, general typewriting, personalized typewriting, and typewriting for non-commercial majors are some of the various adaptations of that title. A lack of unanimity in title denotes differentiated content material and various presentation procedures dependent fully upon the discretion of the teacher.

Another factor involved in personal-use typewriting is its proper placement in the curriculum of the school. Some are of the opinion that

Bulletin 7C. State Superintendent of Public Schools,
St. Louis, Missouri, 1941. p. 51.

Administrative Manual and Course of Study for North Dakota

High Schools. Department of Public Instruction, Bismarck, North
Dakota, 1931. p. 81.

Bulletin 76. Department of Public Instruction, Harrisburg, Pennsylvania. p. 5.

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it should be offered in the senior year. Thus the advantages of this idea lie in the application of the typewriting skill shortly after the student has graduated from high school.

Marks Lifton of the New Ultrecht High School, Brooklyn, New York, recognized the need of the non-business seniors in his school for a type-writing course of a personal nature. He believed that the high school graduates not enrolled in the business course either went on to colleges, universities, or attended private business schools. After graduating from the latter, upon completing a short course in stenography and typewriting, they proceeded to get clerical positions. He felt that a knowledge of typewriting, with a course designed to fit their needs, would be a decided asset to those planning to attend college. Also, it would give to those college preparatory majors, who were unable to attend college after graduating from high school, a vocational skill by which they could earn a living.

There are others who believe that typewriting for personal use can be taught in the lower grades. Damon states that, "Many children begin to take typing in the seventh grade." Reddick goes lower in the grades by saying, "For some time typing has been taught as an important phase of vocational training. But the use of the typewriter as a tool in the elementary grades—this is the new development."

Damon, G. E. "A Critique of Personal Use Typing." Journal of Business Education, June, 1941. 16:20.

Reddick, L. D. "The Last of Longhand." School and Society, November 25, 1933. 38:708.

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AND ADDRESS OF THE PARTY OF THE

Wood and Freeman conducted an experiment in typewriting to determine the value of it in relation to elementary children. The following conclusions were drawn from that extensive experiment.

The study as a whole presents strong evidence, (1) that it is feasible to use the typewriter in the conduct of the ordinary work in the elementary school, (2) that the use of the typewriter in the informal fashion in which it was employed in this study produces an average typing speed approximately equal to the average handwriting rate in each grade, and also yields a very considerable degree of typing accuracy at the end of one year's use, (3) that the use of the typowriter stimulates elementary school pupils to produce more written material than they would otherwise produce, (4) that the classroom typewriter, as used in this experiment, entails no loss in handwriting quality or handwriting rate, (5) that it very probably raises in some measure the level of achievement in some of the fundamental school subjects, without observable loss in any subject, and finally, (6) that the teachers regard the typewriter as a valuable educational instrument and approve its use in their own classes, while the pupils enjoy typewriting and look upon the typewriter with marked favor.

The content of the course presents another diversified factor in personal-use typewriting. The belief is evident that the training involved should be the same as that for the business course students. The reason for this is that it is impossible to tell when an individual enrolled in a personal-use typewriting class will adapt this skill for vocational purposes.

Burns states that, "It is not necessary that every person develop a high rate of speed, except in the case of those pupils who are preparing definitely for positions as stenographers and typists."

Wood, B. D., and Freeman, F. W. An Experimental Study of the Educational Influences of the Typewriter in the Elementary Classroom. The Macmillan Company, New York, 1932. p. 184.

Burns, M. A. "Typewriter in Business." Unpublished Master's Thesis, Boston University, College of Business Administration, 1933. p. 130.

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Blackstone and Yerian support Burns' contention by stating:

Since personal uses of typing are different from vocational uses, it seems foolish, as well as wasteful of time to attempt to teach personal uses from a vocational book. Attempts to compromise may result in weakening instruction for both methods. The greatest success naturally will follow the use of a vocational typing book for training vocational typists, and a personal typing text for those who do not have the vocational objective.

Closely related with the content of a personal-use typewriting course are the problems of speed, accuracy, and skill building. Some writers stress all three, while others take them one by one and adapt them to their particular situations. Franklin, in his article, "Speed, Accuracy, and Remedial Practice," writes that, "Since the personal-use student is acquiring typewriting skill because of its time-saving value, it is obvious that he must attain both speed and accuracy."

Damon, in his article on an experiment conducted at Ohio State University High School relative to personal-use typewriting, supports the other belief that speed is not the ultimate goal in a course such as this.

Typing in our school is taught for personal use only. Students usually learn typing in order to make use of it in their school activities. Those who are in the same class do not work as a group on one assignment. Students are scheduled for typing whenever it fits into their program. No attempt is made to assign the students on one age or grade to typing at the same period. In this way, more students may take typing than would be able to if the classes were arranged according to ability.

Since typewriting is for personal use, it is valuable for the student to acquire skill as early as possible in the school program. If a student feels that in his work a speed of 20

Blackstone, E. G., and Yerian, C. T. Typewriting for Personal Use. The Gregg Publishing Company, Boston, 1937. Preface.

Franklin, Ellis. "Speed, Accuracy, and Remedial Practice." Business Education World, September, 1944. 25:18.

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words per minute is enough, there is no reason why he should remain in class until he can do forty. Many children begin to take typing in the seventh grade. There is no requirement in speed development in order to consider this course completed. 1

Lomax does not agree with the previously expressed points of view.

He contends that, "Speed and accuracy cannot be separated in the production of usable typewritten work-either for commercial or for personal use."

Another point of view on this aspect of personal-use typewriting is held by Rowe who believes that, "Essentially, personal typewriting is the same as any other typewriting. Basic skill is the desired objective."

He clarifies this point by stating that, "Experience has shown that students do not use the typewriter unless they have a definite basic skill of at least 30 words per minute, and most of the time in the course should be spent on the phase of skill building. The extreme emphasis on accuracy should be avoided."

At the present time, personal-use typewriting is serving one of the finest causes of humanity in that it is being used by the blind in their

Damon, op. cit., p. 20.

Lomax, P., Reynolds, H., and Ely, R. Problems of Teaching Typewriting. Prentice-Hall Company, New York, 1935. p. 109.

Rowe, J. L. Lecture, Boston University, School of Education, January, 1948.

Loc. cit.

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daily work. Geiger presents a short synopsis of the purpose behind this program.

Many of the schools for the blind start teaching typewriting to the children when they are in the lower grades, for they realize the use which the students can make of this knowledge throughout their school course.

The young pupils should be given simple material that is readily understood by them. If they are allowed to use the typewriter occasionally to write a letter home or to some friend, it will encourage them and give them the feeling that they are deriving a definite benefit from their study. 1

Thus it can clearly be seen that personal-use typewriting has a definite place in the lives of people other than those in business. Its use ranges from the young to the old; from those with sight to those who are blind. The large number of people served by such a practical tool is constantly increasing.

The value of this skill is uniquely depicted by Blackstone and Yerian.

In this modern world, mechanization is steadily replacing handiwork. The linotype, typewriter, and bookkeeping machine have almost driven longhand writing from the business office. Portable typewriters by the hundreds of thousands are invading our homes and the day of the ornate penman seems to have passed. Manuscripts of short stories, plays, or books, are given scant attention if written in longhand. In the school work, the papers that are neatly and compactly typed tend to create a better impression on the instructor than do the less legible penwritten ones. It seems inevitable that the time will come when every pupil will be expected to be able to operate a typewriter, and when typewriting may largely take the place of longhand writing.

Geiger, L. L. "Commercial Education for the Blind." Unpublished Master's Thesis, Boston University, College of Business Administration, 1935. p. 51.

, while the site of the test not according to the

In Pittsburgh . . . over half the beginning students of typing are reported to desire it for personal use, with no vocational objective in mind.

. . . if the school fails to make special provision for students who wish to be able to type for personal use only, it works a hardship on those students.

The Herkimer County Historical Society published a pamphlet entitled, THE STORY OF THE TYPEWRITER. In it they very clearly depicted the future of the typewriter in the role of personal use.

Only in one phase do the new developments give a clear indication of what the future has in store. The rapid growth in the personal and home use of the typewriter. following the advent of the portable machines, is revealing to many thousands a quality of the machine long known but never before agressively exploited, namely its incomparable value as an educational implement. We do not mean commercial education, for in this field the typewriter established its reign many years ago. We mean the education of the child in reading, writing, spelling, and, as he grows older, in all the fundamentals of language composition. There are true reasons for this value. One is the delight of the child in the machine itself, the use of which provides a vehicle for his creative instinct. The other is the perfection of form in the typed words and sentences which present attainable standards to the child from the very outset of his efforts. The extraordinary results obtained by the typewriter in this field are attested by educators and by parents without number.

It may be a long time yet before the use of the typewriter is established in the elementary schools, as an educational implement as necessary as charts and blackboards, but in the home this service has already begun and will be extended with every passing year. 2

Thus it may be said that there is a definite need for personal-use typewriting; that there is considerable value attached to it; and that a

Blackstone, E. G., and Yerian, C. T. Typewriting for Personal Use. The Gregg Publishing Company, Boston, 1937. Preface.

The Story of the Typewriter. Herkimer County Historical Society, Herkimer County, New York, 1923. p. 132-135.

specific type of course should be planned to cope with this increasingly popular adaptation of the typewriter.

CHAPTER II

SUMMARY OF PREVIOUS RESEARCH

A study relative to a variety of topics on business education was conducted throughout the 258 high schools in Massachusetts by the State Teachers College at Salem. It was found that 24 per cent of these schools offered business subjects in their curricula. Of these, a response of 95 per cent to the questionnaire was obtained.

Based on the research in the above study, the following was stated regarding personal-use typewriting:

Entire classes of commercial subjects for personal use are offered by the larger schools. The subjects most offered in this way are typewriting (in 95 schools) and, in much smaller number, shorthand (in 28 schools), and bookkeeping (in 27 schools). More than half the schools allow non-commercial students to enter vocational classes to obtain some knowledge on a personal-use basis. Students from technical, civic, and household arts curriculums are permitted to elect commercial subjects for personal use.

Osborne conducted a study of personal-use typewriting in conjunction with shorthand by personally interviewing 100 students living in the same dormitory with her. Of the 100 interviewed, it was found that 56 of them could operate the typewriter with varying degrees of speed and efficiency. The remaining 44 students could not operate the typewriter at all.

It was found in Osborne's study that a direct relationship exists between the ability to typewrite and financial saving. As a person rises

Keily, Helen J. "Commercial Education in Massachusetts High Schools." Balance Sheet, February, 1947. 28:259-263.

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on the professional scale, his expenses incurred for typewritten reports, themes, and theses rise proportionately. An analysis was made of the amount of money it had cost the 44 people who could not typewrite to hire someone to typewrite for them. Thus Osborne proved through her study that personal-use typewriting for college people offers them the chance to decrease their own expenses and to increase their incomes.

Another research study, also limited to Massachusetts, was that conducted by the Epsilon Chapter (Boston University), Delta Pi Epsilon.

This study is based on 95 schools in Massachusetts having non-business students enrolled in business subjects.

The following facts relative to typewriting for non-business course students were drawn from this study:

- 1. Of this total (95 schools), 19% reported a trend toward requiring all pupils to take one or more business subjects, usually junior business training, typing, economics, or consumer education. Junior business training and typing are the two most popular subjects in this respect.
- 2. The study also shows that 44.9% of the school enrollment is in the commercial department, and 9.2% of the non-commercial pupils are taking one or more commercial subjects.
- 3. In approximately 55% of these schools a distinction is made in the content of courses and standards of achievement for commercial pupils as distinguished from those for non-commercial pupils.
- 4. Business education for the non-commercial pupil should offer him basic courses in social-business subjects,

Osborne, A. "An Evaluation of Shorthand and Typewriting for Personal Use." Unpublished Master's Thesis, Teachers College, Columbia University, New York, 1934.

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together with typewriting, for exploratory purposes and for personal use.

5. The table shown below is a summary of the elective and required commercial course in the various non-commercial curricula.

For the purpose of this study, only the typewriting aspect of the chart will be listed.

TABLE I
ELECTIVE AND REQUIRED TYPEWRITING

Subjects	College		ctive Industrial	Household
Typewriting	71.5	66	33	33
		Rec	uired	
Typewriting	1	3	0	3

Note: Percentages are for the number of schools offering these courses.

A survey of 35 superintendents of public and parochial schools in various sections of the United States was conducted to determine what these administrators thought about shorthand and typewriting. In keeping with the purpose of this study, only the typewriting phase will be given.

The essence of the main attitude held by all was that typewriting for personal use should be greatly emphasized. The following excerpts are presented as contributed by four of the superintendents.

[&]quot;Non-Commercial Pupils Enrolled in Commercial Subjects."

Balance Sheet, September, 1946. 28:36-37.

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Manual Printy September, 1805. Markett.

The demand for a knowledge of touch typing for personal-use will probably result in increased enrollment in that subject.

With respect to typing I think enrollment will continue to increase and that the time will come when almost every student will be able to type for personal use.

Typewriting should increase in high schools for non-business students. Many high school principals are advocating personal-use typewriting for every graduate from high school.

I believe the trend will be for all students to take a year of typing for its general utility value.

It was noted that "22 college instructors also emphasized the desirability of personal typing."

This survey uncovered the following points relative to the practice of personal-use typewriting as practiced by some school systems at the present time:

- 1. In numerous schools pupils are permitted to take one year of typing without relationship to instruction in shorthand.
- 2. In many more, instruction in typing is limited to those who are taking shorthand simply because of an insufficiency of machines.
- 3. In a few schools, students are permitted to take one term of typing with credit. 3

Tonne, Herbert A. "What Administrators Think About Shorthand and Typing."

Journal of Business Education, December, 1947. p. 19.

Loc. cit.

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Two experiments are underway in New York City with respect to teaching typewriting to adults. In one experiment the basic skills are instructed over a period of four weekends. The results have shown that there is a general ability among these people to typewrite between 25-30 words per minute at the end of the fourth weekend.

The second experiment is conducted in such a manner as to allow the basic skills of typewriting to be taught in one Saturday morning session.

Each student is given a textbook for further instruction. Thus, the minstructor has considerable assurance that most of the students are able to work out term papers and themes with no additional help. "I

With reference to the survey of selected high school superintendents,
Tonne remarks that:

Administrators have been sold on the idea of personal typing, but business teachers have failed to capitalize on it. They insist on following typewriting instructions for all students just the same as for business students. Typewriting can be taught in a much shorter time than it is now taking, and the program for personal use students must be gravely revised to fit the needs of the personal-use student.

A special course in personal-use typewriting was offered at
Brookline High School for the first time last year to all students in the
sophomore, junior, and senior years. There were two classes meeting twice
a week, and four classes meeting three times a week for forty-minute
periods. The following course outline was followed in the teaching of
personal-use touch typewriting, as differing from vocational typewriting;

Tonne, op. cit., p. 19.

Loc. cit.

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- 1. Posture at Typewriter
 - a. feet
 - b. back
 - c. arms
 - 2. Typewriting Technique
 - a. hand position
 - b. fingers
 - c. touch
 - d. insertion of paper
 - e. removal of paper
 - f. carriage throw
 - g. shift key
 - 3. Parts of Machine
 - 4. Cleaning of Machine
 - 5. Changing the Ribbon
 - . 6. Erasing and Typing in the Correction
 - 7. Use of Carbon Paper
 - 8. Mastery of Keyboard (including fourth bank of keys) arabic numbers and characters
 - a. drill
 - b. alphabetic sentence
 - c. numbers
 - 9. Paragraphing
 - 10. Centering a. horizontal
 - b. vertical
 - 11. Outlining
 - 12. Tabulating (simple)
 - 13. Personal Letters
 - 14. Business Letters
 a. 2 forms—double space
 single space
 - 15. Envelopes -- addressing. 1

Ehnes, C. W. "Typewriting for All High School Students." Journal of Business Education, September, 1947. p. 19.

V. Use of Carbon Paper Ellab as a a a 1. Paragraphing

In order to prove the value of this course, a recent survey was taken of those students still at Brookline High School who took the course last year. They had adapted that subject to their advantage in the following ways:

- 1. Copy and layout work for high school paper.
- 2. Scripts for plays and the like for various activities.
- 3. Outlines for practically all subjects, especially in the social studies.
- 4. Themes, especially in English.
- 5. Projects prepared to be used in the commercial and natural science fields.
- 6. Personal letters and notes.
- 7. Letters of application.
- 8. Part-time work.

Of those students who had graduated and were at college, a number expressed satisfaction in being able to typewrite theses, lectures, themes, outlines, experiments, and personal letters.

Thus it appears quite apparent that the studies mentioned are trying to prove the value of personal-use typewriting, even though their methods are still in the experimental stages. Statistics were shown, through two studies, that the personal-use value of various business subjects is definitely on the increase, and would seem to be justifiably so.

The writer does not intend to prove the value of personal-use typewriting as such, but rather to assimilate standards for a course of this

Ehnes, op. cit., p. 19.

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nature as practiced by many instructors of personal-use typewriting at the present time.

CHAPTER III

PROCEDURES USED IN GATHERING DATA

In order to obtain information and data with which to evaluate personal-use typewriting programs, the questionnaire method was employed. The questionnaire, Appendix B, accompanied by a letter of explanation, Appendix A, was sent to 128 selected secondary schools throughout New England. Thus, a definite section of the country, New England, and six of the 48 states were represented in the survey.

A two-page questionnaire was sent to 128 public secondary schools throughout New England, in towns or cities with populations between 5,000 and 80,000. (See Appendix D.) The information concerning areas to meet this requirement was obtained from the WORLD ALMANAC AND BOOK OF FACTS FOR 1947. The figures contained therein were for 1940, but were acceptable on that basis for this research.

Following that, Patterson's AMERICAN EDUCATIONAL DIRECTORY was consulted to determine the name of the high school. In some instances the high school and the town or city did not bear the same name; and in other instances there were two high schools in the same area.

Rhode Island had 21 communities with populations of over 5,000, as of 1940. Two of those areas were excluded. Providence had a population of over 250,000, and Johnston did not have a high school listed in Patterson's Directory. However, Pawtucket had two secondary schools, East High and West High, which brought the total number surveyed to 20.

Vermont had ten towns or cities listed in the WORLD ALMANAC. Since all were listed in Patterson's Directory, all ten were contacted.

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In the state of New Hampshire, there were 16 areas meeting the population requirements of this research study. However, according to the Directory, Lebanon had two high schools, Lebanon High and West High, as did Manchester—Central High and West High. Thus the number of public secondary schools surveyed in New Hampshire was 18.

Maine is one of the larger states in New England, and had 27 towns or cities meeting the requirements. Portland High School and Deering High School were located in Portland, thereby accounting for 28 public secondary schools in this study.

Connecticut had many areas listed with a population of over 5,000.

Because of this, a sampling was taken. Of the 51 areas listed, it was decided that 50 per cent would be a sufficient representation; hence, every other place in the alphabetical list in Patterson's Directory was chosen.

Exceptions were Bridgeport, Hartford, and Waterbury, whose populations exceeded the requirements of this study. Thus, 24 of the 128 areas surveyed were located in Connecticut.

Massachusetts had the largest number of places from which to select areas. One hundred twenty-five of them had populations over 5,000. Ten were excluded because of populations over 80,000, which left a total of 115. It was decided that 25 per cent would be an accurate representation, so every fourth town or city in the alphabetic list compiled was surveyed. Thus, the total number of areas contacted in Massachusetts was 23. (See Table II.)

A recent study was conducted by the Massachusetts State Department of Education to determine information relative to business education in public secondary schools throughout the Commonwealth. A review of this

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survey revealed to the writer whether or not the schools previously selected for Massachusetts offered personal-use typewriting. Those schools, which, according to the State Department study, did not offer personal-use typewriting were not included in this research study. Hence, a random sampling was taken of other schools to replace those excluded from this research by the Massachusetts State Department study. Therefore, three school systems in the Commonwealth of Massachusetts, previously selected by taking every fourth one from Patterson's alphabetical list, were not contacted, and three others were substituted to keep the total number in balance.

The questionnaire consisted of fourteen items. Seven of those items required an explanation, four required merely one word, two required underlining, and one required check marks.

The questions attempted to discover:

- 1. The offering of a course in typewriting, title of course, and grouping or non-grouping of vocational and non-vocational students;
 - 2. Percentage of students taking personal-use typewriting, year in which it is offered to them, and year in which it is considered most advantageous in offering the course.
 - 3. Average speed attained at the end of the year, and the extent to which speed and accuracy are stressed.
 - 4. Class periods per week students meet, length of periods, single

Keily, op. cit., p. 259-263.

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- or double periods--comparison of business typewriting courses with non-business.
 - 5. Factors on which a grade for the course is based, academic credit allowed for the course, and admittance of non-business course students to advanced classes.
- 6. Reasons for instituting personal-use typewriting to the curriculum, and whether or not those reasons were justified either by a follow-up study, personal interview, or both.

Following this section of the questionnaire was a list of 60 items of content material, the purpose in mind being to determine the necessary, optional, or unnecessary material to be taught in a personal-use type-writing program. If it was felt that the item opposite No. 1 was a necessary part of a personal-use course in typewriting, then a check mark would be placed in the Necessary Content Material column; if it was felt that No. 1 was not necessary but would be taught, time permitting, and so forth, then a check mark for it would be placed in the Optional Material column; if it was felt that No. 1 was totally unnecessary to the course, then the check mark would be placed in the Unnecessary Content Material column.

A letter of explanation was sent with the questionnaire explaining the problem involved and the purpose of the analysis. The fact that the information offered would be kept confidential was also mentioned, and the writer offered to send a summary of the findings to those interested in having one.

During a period of two weeks after the questionnaire and letter had been sent to the 128 selected public secondary schools in New England,

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69 replies were received. These replies constituted 54 per cent of the total number surveyed. It was thought that a follow-up letter, Appendix C, accompanied by another questionnaire, would yield still greater results, thereby contributing greater accuracy to the data to be reported.

Three weeks after the first questionnaire was sent, a second two-week period was devoted to sending out and receiving replies from 59 follow-up letters mailed to those school systems failing to respond to the first inquiry. From this process, 32 additional replies were forthcoming. Those 32 replies represented 54 per cent of the number involved in the follow-up procedure.

It was believed that a more comprehensive picture of the personal-use typewriting situation in the public secondary schools could be obtained by using a sampling technique on the six New England states, rather then by limiting the study to one state in particular. In the case of the latter, all the schools of that state rould have to be surveyed. However, by the former method, a broader aspect of the problem was obtained.

TABLE II

	No.	Per Cent
Connecticut	24	18.7
Maine	28	21.9
Massachusetts .	28	21.9
New Hampshire .	18	14.1
Rhode Island	20	15.6
Vermont	10	7.8
Total	128	100.0

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CHAPTER IV

RESULTS OF THE SURVEY

At the termination of a one-month period, January, 1948, a total of lol replies to the questionnaire had been received. This total constituted 78.9 per cent of the 128 public secondary schools surveyed by the use of a two-page questionnaire and a follow-up letter. Of the lol returns, 34 indicated no personal-use typewriting program; 66 school systems had personal-use typewriting included in their curricula. It was found that only a junior high school was in existence in one community, and not a secondary school as listed. The following data are based on the 66 personal-use typewriting programs indicated on the questionnaires.

Table III contains figures and percentages for the schools that responded, whether or not they offered personal-use typewriting, and the number who did not respond to the questionnaire. A complete listing of

TABLE III
SECONDARY SCHOOL RESPONSE TO SURVEY

Secondary Schools	No.	Per Cent
Personal-Use Typewriting Offered	66	50.5
Personal-Use Typewriting Not Offered	34	26.5
No Reply Received	27	21
No Secondary School in the Town	_1	1
Total Surveyed	128	100.0

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all schools surveyed is contained in Appendix D. Appendix E contains a list of the schools responding to the survey. Appendix F shows the secondary schools whose curricula includes personal-use typewriting programs.

The first item on the questionnaire concerned the title under which personal-use typewriting was offered. Nine different titles appeared in the final tabulation. (See Table IV.)

Forty-two schools, or 65 per cent, had the caption Typewriting I as the title under which beginning typewriting was taught to the non-business course students. From the above statement it could be assumed that all students enrolled in Typewriting I were heterogenous in relation to their reasons for participating in the course. They must begin in Typewriting I regardless of their reasons for enrolling in it.

Thirteen of the responses differed from the above policy by instituting a course labeled Personal Typewriting. Though the nature of this course, in contrast to Typewriting I, was not explained, the conclusion may be drawn that the title of the course implies the course content.

Those enrolled in a course with this title may be assumed to be a homogeneous group, desiring typewriting as a personal and not a vocational tool.

The following titles were, to a lesser extent than those already mentioned, in use in a small percentage of the remaining schools—Non-vocational Typewriting, General Typewriting, Typewriting for Non-commercial Majors, Typewriting A, Typewriting IS, Typewriting E and F, and Typewriting for Personal Use. Three schools did not designate the title of the course.

Though these titles differ somewhat from the two previously mentioned-Typewriting I and Personal Typewriting-the basic assumption made and descript of the selection of hoperators of hoperators of the selection of the selection

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for these two may be adapted to some degree to each of the titles in the above paragraph.

TABLE IV

VARIOUS TITLES DENOTING PERSONAL-USE TYPEWRITING COURSES

Title	No. of Schools	Per Cent
Typewriting I	42	63
Personal Typewriting	13	20
Non-vocational Typewriting	2	3
General Typewriting	1	1.5
Typewriting for Non-commercial Majors	1	1.5
Typewriting A	1	1.5
Typewriting IS	1	1.5
Typewriting E and F	1	1.5
Typewriting for Personal Use	1	1.5
No Reply	3	5
Total	66	100.0

In answer to the question, "What percentage of non-business course students are taking typewriting?", a variance of approximately 89 per cent was noted in the 42 replies received. However, in terms of such a wide variance, the population of the schools involved was an important factor in that a percentage of 75 in one school could very easily be equal to 50 per cent in a smaller school. Thus, over a total of 42 schools, an average of 26. 5 per cent of the total non-business students in those schools are enrolled in a typewriting course for the personal, practical

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in anomy is in quantum, "that preserves is non-reflect worked land of approximately 60- new cent out and the time of approximately 60- new cent out and the time of approximately 60- new cent out and the time of approximately of the time of the contract o

value they may derive from it. In one secondary school in which 90 per cent or more of the students were enrolled in typewriting for personal use, it was noted that three classes each year were open to non-business students. It was found in another school that three out of every five students in Typewriting I were from the non-vocational classes.

The question was asked relative to the year in which personal-use typewriting was offered to non-business course students—freshman, sophomore, junior, senior, or any year that fits into their program. In many instances no single year could be stated, but rather a combination of two or three years. This fact accounted for the larger amount of answers than the number of questionnaires involved.

The junior and senior years seemed to be the most persistent designation of the year in which this course should be offered. The senior year received 33 responses, and the junior year, 31. (See Table V.)

Next in order came "any year that fits into their program," "sophomore year," and "freshman year." Though the freshman year was mentioned only three times, it afforded a basis for the notation of the trend in offering this course. As may be seen from Table V, the range was from 3 responses in favor of the freshman year to 33 for the senior year. The sophomore and junior years followed in their respective order between those two.

Immediately following the previous question, another one, closely related to it, was asked. "In what year do you consider it most advantageous to offer this course to non-business course students?" It was thought to be of interest and pertinent to the problem to gain the opinion of the teacher on this question. The answers to this question also were multiple in that one, two, or three years were considered appropriate.

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YEAR IN WHICH PERSONAL-USE TYPEWRITING
IS OFFERED TO NON-BUSINESS COURSE STUDENTS

Year	No. of Schools	Per Cent
Senior	33	31
Junior	31	29
Any Year	23	21
Sophomore	17	16
Freshman	3	3
Total	107	100

The junior year was found to be the most practical for offering this course. (See Table V I.) It placed first with a tally of 27; the senior year was next with 22; the sophomore year, 14; freshman year, 4; and one person believed that any year at all would suffice.

TABLE VI

YEAR IN WHICH IT TO OFFER A PERSONAL	-USE TYPE	WRITING COURS	-
	o. of chools	Per Cen	it
Junior	27	40	
Senior	22	32	
Sophomore	14	21	
Freshman	4	6	
Any Year	1	1	
Total	68	100	

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The business and non-business course students were contrasted by a question pertaining to the average speed attained at the end of a year of typewriting. The data compiled showed that the average speed attained by business students was 35 words per minute, and 32 words per minute for non-business course students. The range from which these averages were derived was from 60 to 15 words per minute for both classes of students. It was found in one school system that "O" average speed was required of non-business course students. This inferred that no specific speed requirements were demanded of these students, and that whatever typewriting speed they could attain was sufficient for their personal use.

Another person replied that an average speed of 30 words per minute was required from the college preparatory students, and a lower average of 20 words per minute from shop pupils enrolled in the same class. No reason was given for the duplicity of requirements.

It was decided to determine the extent that speed and accuracy were being stressed in classes in typewriting for personal use. Those answering the question, "To what extent is speed stressed for non-business course pupils." were requested to comment freely.

Foremost among the contributions received was the statement that speed for non-business course students was stressed as much for them as for vocational classes in typewriting. Closely following was the statement that "speed is secondary to accuracy." There were a few cases in which speed was not stressed at all, stressed very little, or stressed a great deal. In one instance both speed and accuracy were equally stressed, one preceeding the other, or concurrently. There were other variations noted, among them the theory that production accomplished and the practical

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use to which speed, accuracy, and production can be applied were more to the student's advantage than the single aspect of speed.

TABLE VII
SPEED FACTOR IN PERSONAL-USE TYPEWRITING

Importance of Speed	No. of Schools	Per Cent
Same as Business Course Students .	19	31 2/3
Secondary to Accuracy	16	26 2/3
Not Stressed	10	16 2/3
Some Stress	9	15
Great Stress	3	5
Strass Speed and Accuracy Together	1	1 2/8
Production, Regardless of Speed	1	1 2/3
Practical Use, Regardless of Speed	1	1 2/3

Closely allied to the above question was, "To what extent is accuracy stressed for non-business course pupils?"

Almost without exception the majority of those replying considered accuracy of prime importance—more important than speed in a personal-use typewriting course. Also, it was found, as was true of speed, that accuracy was stressed equally as much for business as for non-business course students. A few people felt that sufficient accuracy was all that was needed. The term "sufficient" was left undefined, however, but may be inferred as meaning that which is sufficient to meet the needs of the non-vocational students in the course. In one instance, accuracy was not stressed at all, perhaps for the same reason that no specific average

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speed requirement was made in one school system previously mentioned.

Further contributions to this question indicated that the emphasis should be on production and not on accuracy, and that both speed and accuracy could be stressed in turn to the advantage of the student. (See Table VIII.)

TABLE VIII

ACCURAGY FACTOR IN PERSONAL-USE TYPEWRITING

Importance of Accuracy	No. of Schools	Per Cent
Prime Importance	28	46 2/3
Same as Business Course Students	21	35
Sufficient Accuracy	8	13 1/3
Speed and Accuracy Stressed in Turn	1	1 2/3
Production before Accuracy	1	1 2/3
Accuracy not Stressed	1	1 2/3

The question arose as to the differences between courses in typewriting for business course and non-business course students. As a result, one question was devoted to contrasting the class periods per week that the students meet, the length of those periods, and whether the periods were single or double. (See Table IX.)

Of the 55 replies received to this question, it was found that in 46 schools business course students meet five times per week, as against 45 for non-business course students. Business typewriting classes were held four times each week in eight school systems, and in only one system were vocational typewriting classes held 10 periods per week.

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As for the remainder of the replies on class periods for non-business course typewriting, four periods per week were necessary in six school systems, three periods per week in two schools, and two periods per week in one school system. It was noted that in one personal-use typewriting class all college preparatory majors were given three periods and all other non-vocational people, five periods per week. No explanation was given for this plan. (See Table IX.)

It was found that the average vocational typewriting class met 4.9 periods per week as compared with 4.7 class periods per week for the non-vocational people.

In studying the length of class periods, it was noted that no differentiation in time occurred between those two groups of typewriting classes. That is, if one system had a period of 42 minutes for vocational typewriting, the same length of time would be utilized for the non-business typewriting class. The most general time allotment found for class periods was 40 minutes. There was a range of 20 minutes between the longest period. 60 minutes, and the shortest period, 40 minutes. (See Table IX.)

A great deal of controversy has centered around the value of having double periods of typewriting to replace the single periods. Research has proved that the double period holds little or no value over the single period. The findings of this study substantiated the theory upheld by previous research. On only one reply out of 55 was a double period indicated for business course typewriting classes. Yet that same system did not require double periods of typewriting for non-business course students. Thus all 55 replies to this item on the questionnaire indicated single periods of typewriting for non-business course students. (See Table IX.)

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TABLE IX

LENGTH AND NUMBER OF CLASS PERIODS PER WEEK (SINGLE OR DOUBLE) BETWEEN BUSINESS AND NON-BUSINESS COURSE TYPEWRITING CLASSES

and the babble to know the	Busir No.	Per Cent	Non-Bus No.	iness Course Per Cent
Class Periods Per Week:				
10 Class Periods	1	1.8	0	C
5 Class Periods	46	83.6	45	83.3
4 Class Periods	8	14.6	6	11.1
3 Class Periods	0	0	2	3.7
2 Class Periods	0	0	1	1.9
Total	55	100.0	* 54	100.0
Length of Class Periods:				
60 Minutes	3	5.5	3	5.8
57 Minutes	1 2	1.8	1	1.8
55 Minutes	2	3.6	2	3.6
51 Minutes	1	1.8	1	1.8
50 Minutes	6	10.9	6	10.9
47 Minutes	2	3.6	2	3.6
45 Minutes	14	25.5	14	25.5
43 Minutes	1	1.3	1	1.8
42 Minutes	1	1.8	1	1.8
40 Minutes	24	43.7	24	43.7
Total	55	100.0	55	100.0
Single Periods:	52	98.1	53	100.0
Double Periods:	1	1.9	_0	
Total	53	100.0	53	100.0

*One system requires 3 class periods for college majors and 5 class periods for all other non-business course students.

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In view of the belief held by some, that a grade should not be given for personal-use typewriting, a question was included on the questionnaire which sought information on grades for a course of this type. It was also considered desirable to know the factors on which such a grade was based.

The data compiled showed that 59 of the 61 teachers answering did grant a grade for personal-use typewriting. The grade was, for the most part, based on two prime factors—accuracy and speed of work accomplished. Interspersed throughout with these two elements were such factors as quality and quantity of work produced, techniques in manipulating the machine, set-up, daily accomplishment, individual projects, initiative of the student, posture, interest, work habits, timed writing scores, attitude, improvement, and opinion of the typewriting teacher. With reference to the last factor listed, (though typewriting bears all the indications of an objective subject) this study revealed the possible subjectivity of the grade involved.

The question was asked, "Are students from non-business course type-writing classes ever admitted to advanced typewriting classes? If so, under what conditions?"

It was found that students in 35 cut of 56 schools were admitted to advanced typewriting classes provided certain conditions were met. Foremost among these was the satisfactory completion of the requirements of Typewriting I. Other factors such as availability of typewriters, ability to fit Typewriting II into their programs, and scholastic standing of the students played an important part in the final decision. It was noted that in one school system students who were enrolled in personal-use typewriting must change their courses entirely in order to be admitted to advanced

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typewriting. In two schools only isolated cases, or exceptional students, were allowed into advanced classes. In still another school, the students' admittance depended entirely upon the recommendation of the teacher.

Entrance into advanced typewriting classes was denied personal-use typewriting students in 19 out of 56 school systems. The reasons for this were:

- 1. There were no advanced typewriting classes apart from shorthand. In other words, the second year of typewriting consisted of transcribing shorthand dictation. It was impossible to have a regular Typewriting II class as such because of the lack of the necessary equipment and teachers for the subject.
- 2. There was not enough room in the Typewriting II class for non-vocational students.
- 3. Only one year of typewriting was offered, and that was in the senior year.
- 4. Personal-use typewriting was offered for one semester only.

 Thus, a student would have to enroll in a first-year typewriting class in order to be admitted to advanced typewriting.
 - 5. There was no advanced typewriting class whatsoever.
- 6. It was too difficult to try to work advanced typewriting into the programs of non-business course students.

It was noted in two school systems that "sometimes" non-vocational students were allowed into advanced typewriting classes. It may be that the conditions regulating such circumstances were similar to those previously mentioned.

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5. There was no surround type-elling class statement,

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The aspect of academic credit assigned to personal-use typewriting was deemed important; thus, the question, "How much academic credit is given for non-business course typewriting?" was included on the question-naire.

Forty-two replies were received to this inquiry, with credit ranging from 0 to 5 academic points. It was evident in some schools that as soon as non-vocational students developed enough skill to meet their personal needs, they were perfectly justified in withdrawing from the class.

Hence, that would be a logical basis on which to grant no credit.

Over 65 per cent of the replies indicated either one or one-half point of academic credit for satisfactory completion of a personal-use type-writing course. (See Table X.) However, the findings showed such a wide range of credit, that it was found extremely difficult to explain the situation.

TABLE X

ACADEMIC CREDIT GRANTED FOR PERSONAL-USE TYPEWRITING

Acaden	nic Credit	No. of Schools	Per Cent
5	Points	1	1.9
3	Points	2	3.9
2 1/	2 Points	8	15.3
	Points	1	1.9
1 1/	4 Points	2	3.9
1	Point	10	19.3
1/2	Point	25	48.0
1/4	Point	2	3.9
0	Points	1	1.9
	Total	52	100.0

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From the foregoing material it was assumed that a course of this nature was justified in the curriculum of public secondary schools. Hence, the last two items on the questionnaire pertained to the reason or reasons for offering personal-use typewriting.

There were many reasons advanced for the offering of this course, all of which could be catagorized under eight different titles. (See Table XI.) Most of the reasons centered around the benefits college students derived from personal-use typewriting. It was felt that a considerable financial saving was possible if they could typewrite; that many of them could earn extra money while in college by typing for others; that sometimes a higher grade was given in college for typewritten papers; and that those high school students who were unable to attend college upon graduation had acquired a skill enabling them to earn a living.

TABLE XI
REASONS FOR OFFERING PERSONAL-USE TYPEWRITING COURSES

Reasons	No. of Schools	Per Cent
Beneficial to college students	23	32.4
Popular demand by students and parents	15	21.2
Definite need for the skill	11	15.5
Personal asset	11	15.5
Practical value	6	8.4
Essential in curriculum	3	4.2
who do not take stenographic work	1	1.4
Points needed for graduation	1	1.4
Total	71	100.0

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Some of the principals and superintendents desired this subject in their school systems because of the practical value involved, and the possible acquisition of a personal asset for all. They considered typewriting essential for everyone, and asserted that there was a definite need for the skill.

The strong demand by students and parents prompted many high schools to institute personal-use typewriting. Then, too, emitting the personal-use value for a moment, it was considered vocationally important to all students who did not take the prescribed stenographic curriculum. It was interesting to note that only once did the reason "points needed for graduation" appear as a reason for instituting this course.

Personal-use typewriting has justified its inclusion in the curriculum of many secondary schools. Most of the justification was gained through the personal interview technique. (See Table XII.) These interviews were conducted either on a strictly formal basis, or through occasional visits of former students to the school. One teacher replied that she had received, "personally, telephone calls from former pupils who received a promotion, were taken into the clerical work division by the Army and Navy, and from students who find many phases of their college work facilitated by their ability to typewrite."

Seven of the schools had conducted follow-up studies. One secondary school was in the process of conducting a follow-up study of its business graduates, and those non-business course students who took typewriting.

Another school had had follow-up studies and personal interviews over a period of years. Thus, much information was gleaned from this particular questionnaire.

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A personal-use typewriting course was being offered for the first time in one school; thus they were unable to report on the value of this program in that it was still in the experimental stage.

It was found that the large number of students enrolled in this course each year justified the offering of it by two school systems. However, 17 of the replies indicated no attempt to substantiate in any way the value of this course.

TABLE XII

METHOD OF DETERMINING THE VALUE OF
PERSONAL-USE TYPEWRITING COURSES IN SELECTED SECONDARY SCHOOLS

Method	No. of Schools	Per Cent
Personal Interview	29	52.7
Follow-up Studies	7	12.7
Course Enrollment	2	3.6
None	17	31.0
Total	5 5	100.0

Many reasons were given to teachers by students concerning the benefits derived from a course in personal-use typewriting. The benefit most frequently mentioned was that of invaluable aid in college. Students were able to earn better grades from handing in typewritten themes, reports, and papers. Their notes were more meaningful. Also, it was possible for some of them to earn money while in college by typewriting materials for other students who lacked the skill.

Many college preparatory students in high school failed to go on to college for a variety of reasons. Some of them had enrolled in a type-

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writing course primarily for personal use. Thus, when they were unable to proceed into college, this skill was applied vocationally to enable them to obtain suitable employment.

In some instances advancement in business positions developed as a result of a person's ability to manipulate the typewriter. College students were able to secure summer employment through their use of the typewriter.

One unusual reason listed was the benefit many men and women in the service received from having elected a course in personal-use typewriting while in high school. They, too, as had some college students, adapted their skill to meet vocational needs, and acquired positions more to their liking while in the service.

It was indicated that many students, if offered the opportunity to take this course early enough in their high school period, adapted the skill to their various subject matter courses—typewriting themes, reports, and other class materials.

The aptitude, interest, and ability students displayed in this course caused many teachers to remark about it on the questionnaire. In one school, for example, the students were so eager about typewriting that they practiced every free moment—noontimes, free periods, and after school. In fact, one teacher offered personal typewriting after school as an extracurricula activity to those who could not otherwise fit it into their programs.

Another teacher remarked that as a result of having had typewriting for personal use in her school, a college student who desired to attend business college was allowed a year's credit in typewriting at a private business

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ness school.

Only one teacher out of 101 responding to the questionnaire expressed disbelief in personal typewriting at the high school level. The reason for that point of view was not listed. Nevertheless, it was noted on that same questionnaire that though no personal-use typewriting program as such was offered, non-business students, particularly college preparatory majors were encouraged to take a year of typewriting. The content was the same as for first-year vocational people, and "Every opportunity for doing manuscript and other work of a personal nature" was afforded.

Another reply was, "We offered such a course for non-business pupils, but the elections were so small that it was dropped after 3 years."

However, the majority of schools from whom information was gleaned were more positive as to the value of personal-use typewriting. Some of the statements were as follows:

"It is more important each year that all know how to type."

"Believe all should have at least one year of typing-college or general."

"We feel that every student who wishes to take typing should have an opportunity to do so. Also, we have included it in our General Course—junior year—as an elective for students not interested in following a scientific or other academic course."

"The typewriter is such a common writing tool that ability to use it is felt to be advantageous to nearly everybody, particularly college students."

"Personal-use typing is becoming more of an essential in the curriculum day by day."

"This school year has found us with the largest enrollment of non-business pupils in our typewriting classes. The
interest, aptitude, and accomplishment of the pupils have been
most satisfactory. I believe teachers of business courses
should give considerable thought and planning to offering
typing to non-business pupils."

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The second part of the two-page questionnaire used to analyze personal-use typewriting programs was devoted to a list of 60 items. Those items constituted various content material included in programs for personal-use typewriting, and were selected from textbooks dealing with this subject.

It was desired to determine from this list the items on it considered important in a personal-use typewriting program; those items considered to be optional (would be taught if time permitted); and those which were thought to be totally unnecessary from the teaching standpoint.

The complete tabulation of such data is contained in Table XIII. The first figures in each of the columns represent the actual number of people indicating their choice of that particular column, and the second figures represent the figures converted into percentages. Thirty-three, or 55 per cent of the total items were rated 50 per cent or over by all the teachers answering this section.

Table 14 depicts 15 items deemed necessary to a program of this type with ratings of 80 per cent or over from the people responding. Those items are in terms of percentages, and are supplemented by percentages from the Optional Material column. This was done in that those who considered the items optional did so on the basis that they were not entirely unnecessary to the course.

Table XV shows the comparison between the necessary items in Table XIV and the percentage of replies recorded in the Unnecessary Content Material column for the same items.

Table XVI is a continuation of Table XIV in that it lists the items
deemed necessary to a personal-use typewriting program with ratings between

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TABLE XIII

OF ALL CONTENT MATERIAL ITEMS INCLUDED IN THE QUESTIONNAIRE

CONTENT MATERIAL TENT	MECESSARY CON- TENT MATERIAL	OPTIONAL MATERIAL	NAL	UNNECE:	UNNECESSARY CON- TENT MATERIAL	NO	NO OPINION EXPRESSED
Addressing Envelopes 50	Per Cent	No. Pe	Per Cent	No.	Per Cent	No	Per Cent
Book Reference 20	57.7	16	50.1	10	13.8	4	13.2
Book Reviews 20	27.73	19	55.8	2	15.2	7	13.2
Business Letter (full-block) 34	64.1	F1	24.5	O\$	2.7	4	7.5
Business Letter (indented) 41	77.3	o	16.9	0	0.	80	5.6
Business Letter (semi-block) 42	79.2	10	18.8	0	0.	Н	1.8
Carbon Copy 49	92.4	60	5.6	0	0.	н	8.
Care of Machine 52	98.1	0	0.	Н	1.8	0	0.
Centering 47	88.6	623	10	-1	1.8	Ø	5.7
Characters not on Keyboard 37	8.69	10	18.8	ဖ	11.8	0	0.
Checks 15	28.5	17	32.0	18	22.0	60	9.0
Codes of Ethics 18	53.9	74	26.4	16	80.1	ro	9.4
Composing Themes at the Machine 24	24. 55.	50	27.7	ເດ	9.4	4	7.5
Crowding and Spacing Letters 36	67.9	122	22.6	- A	7.5	Н	1.8

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CONTENT MATERIAL	NECES	NECESSARY CON-	OP MA	OPTIONAL MATERIAL	UNNEC	UNNECESSARY CON- TENT MATERIAL	N N	NO OPINION EXPRESSED
Determine Length of Writing Line	No.	Per Cent 86.7	No.	Per Cent	No.	Per Cent	No.	Per Cent
Division of Words	47	88.6	elt.	7.5	ri.	1.8	ri	1.8
Double Postal Cards	2	15.2	25	47.1	17	32.0	4	7.5
Drafts	00	15.0	13	8.00	ನ	29°6	10	9.
Frasing	21	96.2	Н	7.8	0	-0.	Н	1.8
Figures and Symbols	T	77.3	00	15.0	103	. O	Н	H . 88
Folding Letters for Envelope		15.2	9	-5	9	7		
Insertion	44	85.0	ယ	11.5	Н	1.3	O.	5.7
Grocery Lists	60	11.3	17	52.0	26	49.0	4	7.5
Headings for School Papers	o o	16.9	22	56.6	Ħ	20.7	63	5.6
Inventories	00	15.0	23	47.1	17	32.0	10	9° °
Invitations and Answers	CV CV	41.5	17	52.0	H	20.7	20	0
Jokes	63	5°.6	12	28.	29	54.7	0	11.3
Letters of Application	157	81,1	7	13.8	CV.	7.00	н	1.8
Letters of More Than 1 Page	38	71.6	H	20.7	10	بى ق	Н	1.8
Manuscripts	40	75.4	03	15.0	4	7.5	H	8*1

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CONTENT MATERIAL	NECES	NECESSARY CON- TENT MATERIAL	OP	OPTIONAL MATERIAL	UNNECE	UNNECESSARY CON- TENT MATERIAL	EX NO	NO OPINION EXPRESSED
Margin Control	NO.	Per Cent 83.0	No.	Per Cent 15.0	000	Per Cent	10.	Per Cent
Menus snug	53	24.5	26	49.0	H	20.7	80	5.6
Minutes of Meetings	56	0.62	23	41.5	10	5.6	o.	3.7
Outlines	4	85.0	N	6.	C.	3.7	- 64	3.7
Paragraphing	46	86.7	Q.E	63	Н	1.8	4	7.5
Personal Notes and Letters	Z	58.4	74	26.4	10	5.6	D	9.4
Place Cards	2	13.2	13	55.00	tz	59.6	0	11.3
Planning Arrangement of Letters	40	75.4	80	15.0	4	7.5	-	1.8
Play Dialogue	o	16.9	22	50.9	H 23	24.5	4	7.5
Poetry	H	20.7	65 80	43.	47	26.4	ro.	P*6
Postal Cards	56	49.0	20	27.7	9	11.3	Н	1.8
Posters	ທ	9.4	13	35.8	22	47.1	4	7.5
Printers Proof	14	26.4	253	45.3	14	26.4	CA	3.7
Programs	15	28.3	29	54.7	ro	Q. 4.	41	7.5

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	NO OPINION EXPRESSED	Per Cent	7.5	1.8	60	1.8	1.8	5.6	7.00	0.	. s.	0.0	9.4	11.3	5.7	
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	UNNECESSARY CON- TENT MATERIAL	Per Cent	20.1	1.00	13.2	0.	C	20.7	3.7	1.8	30.1	5.6	45.5	32.0	7.0	
	UNNEC	13	16	H	2	0	N	T	Q	Н	16	ro.	23	17	O.	
(penu	OPTIONAL, MATERIAL	Per Cent	9.62	7.5	24.5	7.5	16.9	49.0	55.9	18.8	47.1	24.5	55 55 8	27.7	16.9	
(Continued)	OP	No.	12	4	123	₩	o	26	18	10	25	13	19	20	ත	
TABLE XIII	NECESSARY CON- TENT MATERIAL	Per Cent	22.6	88.6	58.4	90°2	77.3	24.5	58.4	79.2	16.9	60.3	11.5	18.8	75.4	
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*TABLE XIII (Concluded)

CONTENT MATERIAL	NECESSARY CON- TENT MATERIAL	OPTIONAL MATERIAL	UNNECESSARY. CON-	NO OPINION EXPRESSED
Typing Themes	No. Per Cent	No. Per Cent 8 15.0	No. Per Cent 5 5.6	No. Per Cent
Vortical Centering	47 38.6	52 22 24	11.8	2.57

that the percentages would be the same Or 01 *The percentages listed horizontally for each item do not exactly equal 100. The difference is 000 less, and was unavoidably incurred in rounding off the figures for each integer of the same measure.

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50 and 80 per cent. Conversely, Table XVII, a continuation of Table XV, shows the comparison between the items in Table XVI and the percentage of replies recorded in the Unnecessary Content Material column for the same items.

NECESSARY CONTENT MATERIAL ITEMS RATED 80 TO 100 PER CENT (Supplemented by Optional Material Column)

CONTENT MATERIAL	NECE	SSARY	OP	TIONAL		TOTAL
Care of Machine	No. P	er Cent 98.1	No.	Per Cent	No. 52	Per Cent 98.1
Erasing	51	96.2	1	1.8	52	98.0
Addressing Envelopes	50	94.3	2	3.7	52	98.0
Carbon Copy	49	92.4	3	5.6	52	98.0
Spacing after Punctuation Marks	48	90.5	4	7.5	52	98.0
Centering	47	88.6	3.	5.6	50	94.2
Vertical Centering	47	88.6	3	5.6	50	94.2
Division of Words	47	88.6	4	7.5	51	96.1
Reinserting Paper	47	88.6	4	7.5	51	96.1
Paragraphing	46	86.7	2	3.7	48	90.4
Determine Length of Writing Line	46	86.7	. 3	5.6	49	92.3
Outlines	44	83.0	5	9.4	49	92.4
Folding Letters for Envelope Insertion	44	83.0	6	11.3	50	94.3
Margin Control	44	83.0	8	15.0	52	98.0
Letters of Application	43	81.1	7	13.2	50	94.3

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COMPARISON BETWEEN NECESSARY CONTENT MATERIAL ITEMS
RATED 80 TO 100 PER CENT, AND THE SAME ITEMS CLASSIFIED AS UNNECESSARY

CONTENT MATERIAL	Ne.	CESSARY Per Cent	UNI No.	Per Cent
Care of Machine	52	98.1	1	1.8
Erasing	51	96.2	0	.0
Addressing Envelopes	50	94.3	0	.0
Carbon Copy	49	92,4	Ó	.0
Spacing After Punctuation Marks	48	90.5	0	.0
Centering	47	88.6	1	1.8
Vertical Centering	47	88.6	1	1.8
Division of Words	47	88,6	1	1.8
Reinserting Paper	47	88.6	1	1.8
Paragraphing	46	86.7	1	1.8
Determine Length of Writing Line	46	86.7	3	5.6
Outlines	44	83.0	2	3.7
Folding Letters for Envelope Insertion	44	83.0	1	1.8
Margin Control	44	83.0	0	.0
Letters of Application	43	81.1	2	3.7

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NECESSARY CONTENT MATERIAL ITEMS RATED 50 TO 80 PER CENT (Supplemented by Optional Material Column)

CONTENT MATERIAL	NEC	ESSARY	OPT	IONAL	TO	TAL
Business Letter (semi-block)	No. 42	Per Cent 79.2	No. 10	Per Cent 18.8	No. 52	Per Cent 98.0
Tabulating	42	79.2	10	18.8	52	98.0
Figures and Symbols	41	77.3	8	15.0	49	92.3
Business Letter (Indented)	41	77.3	9	16.9	50	94.2
Spacing Before and After Special Characters	41	77.3	9	16.9	50	94.2
Manuscripts	40	75.4	8	15.0	48	90.4
Planning Arrangement of Letters	40	75.4	8	15.0	48	90.4
Typing Themes	40	75.4	8	15.0	48	90.4
Typing on Ruled Lines	40	75.4	9	16.9	49	92.3
Letters of More Than 1 Page	38	71.6	11	20.7	490	92.3
Characters Not on Keyboard	37	69.8	10	18.8	47	88.6
Crowding and Spacing Letters	36	67.9	12	22.6	48	90.5
Business Letter (Full-block)	54	64.1	13	24.5	47	88.6
Proofreading	33	62.2	12	22.6	45	84.8
Title Pages	32	60.3	13	24.5	45	84.8
Rough Drafts	31	58.4	13	24.5	44	82.9
Personal Notes and Letters	31	58.4	14	26.4	45	84.8
Tables of Contents	31	58.4	18	33.9	49	92.3

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TABLE XVII

COMPARISON BETWEEN NECESSARY CONTENT MATERIAL ITEMS
RATED 50 TO 80 PER CENT, AND THE SAME ITEMS CLASSIFIED AS UNNECESSARY

CONTENT MATERIAL		CESSARY Per Cent		ECESSARY Per Cent
Business Letter (Semi-block)	42	79.2	0	.0
Tabulation	42	79.2	1	1.8
Figures and Symbols	41	77.3	3	5.6
Business Letter (Indented)	41	77.3	0	0
Spacing Before and After Special Characters	41	77.3	2	3.7
Manuscripts	40	75.4	4	7.5
Planning Arrangement of Letters	40	75.4	4	7.5
Typing Themes	40	75.4	3	5.6
Typing on Ruled Lines	40	75.4	2	3.7
Letters of More Than 1 Page	38	71.6	3	5.6
Characters Not on Keyboard	37	69.8	6	11.3
Crowding and Spacing Letters	36	67.9	4	7.5
Business Letter (Full-block)	34	64.1	2	3.7
Proofreading	33	62.2	6	11.3
Title Pages	32	60.3	5	9.4
Rough Drafts	31	58.4	7	13.2
Personal Notes and Letters	31	58.4	3	5.6
Table of Contents	31	58.4	2	3.7

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Through the comparisons in Tables XV and XVII, it can be seen that the large differences between those figures further strengthens the necessity of including the content material listed in a course of this nature. The lowest figure in Table XVII is 58.4 per cent, which indicates that in comparing the Necessary items with the Unnecessary items, all of the items fell above the 50 per cent mark. Thus, over half of the people responding considered these items necessary.

There were four items in the Necessary Content Material column ranging in per cent from 41 to 49 inclusive. (See Table XVIII.) Although 50 per cent did not consider those items necessary, a comparison of the percentages with percentages in the Unnecessary Content Material column opposite the same items emphasizes the point of considering those items as necessary to the course content.

TABLE XVIII

COMPARISON BETWEEN FOUR NECESSARY CONTENT
MATERIAL ITEMS AND THE SAME ITEMS CLASSIFIED AS UNNECESSARY

CONTENT MATERIAL	NE	CESSARY	UNNECESSARY		
Minutes of Meetings	No. 26	Per Cent 49.0	No.	Per Cent 5.6	
Postal Cards	26	49.0	6	11.3	
Composing Themes at the Machine .	24	45.2	5	9.4	
Invitations and Answers	22	41.5	11	20.7	

A further comparison of those same items, using the figures represented by the Optional Material column and added to the figures from the Necessary column serves to strengthen the difference between the Necessary and Unnecessary aspect of those items. (See Table XIX.)

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TABLE XIX

TOTAL PERCENTAGES OF NECESSARY CONTENT MATERIAL

AND OPTIONAL COLUMN VERSUS PERCENTAGES OF UNNECESSARY CONTENT MATERIAL COLUMN

CONTENT MATERIAL* NECESSARY		OPTIONAL	TOTAL	UNNECESSAR	
	No. Per Cent 26 49.0	No. Per Cent 22 41.5	No. Per Cent 48 90.5	No. Per Cent 3 5.6	
Item 2	26 49. 0	20 37.7	466 86.7	6 11.3	
Item 3	24 45.2	20 37.7	44 82.9	5 9.4	
Item 4	22 41.5	17 32.0	39 73.5	11 20.7	

*Item 1, Minutes of Meetings; Item 2, Postal Cards; Item 3, Composing Themes at the Machine; Item 4, Invitations and Answers.

There were four items in the questionnaire definitely indicative of being unnecessary. Forty per cent or more of the people replying considered those four items definitely unnecessary in a course for personal-use typewriting. (See Table XX.)

TABLE XX
UNNECESSARY CONTENT MATERIAL RATED 40 PER CENT OR ABOVE

CONTENT MATERIAL	No.	PER CENT
Jokes	29	54.7
Grocery Lists	26	49.0
Posters	25	47.1
Typing Class Schedule Cards	23	43.3

A comparison between the items in Table XX and the ratings for the same items in the Necessary Content Material column clearly indicates the nonessential element of those items. (See Table XXI.)

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TABLE XXI

COMPARISON BETWEEN FOUR UNNECESSARY CONTENT MATERIAL ITEMS AND THE SAME ITEMS CLASSIFIED AS NECESSARY

CONTENT MATERIAL	UNN	IECESSARY	NECESSARY		
Jokes	No. 29	Per Cent 54.7	No. 3	Per Cent	
Grocery Lists	26	49.0	6	11.3	
Posters	25	47.1	5	9.4	
Typing Class Schedule Cards		43.3	6	11.3	

Seven additional items in the Unnecessary Content Material column were not rated as highly unnecessary as the four previously mentioned. However, in the comparison, shown by Table XXII, in which the necessary and unnecessary figures are compared, the conclusion may be drawn that those items are more unnecessary that necessary to a course in personal-use typewriting.

COMPARISON BETWEEN UNNECESSARY CONTENT MATERIAL ITEMS
RATED 30 TO 39 PER CENT INCLUSIVE AND THE SAME ITEMS CLASSIFIED NECESSARY

CONTENT MATERIAL	UNNECESSARY	NECESSARY
Place Cards	No. Per Cent 21 39.6	No. Per Cent 7 13.2
Drafts	21 39.6	8 15.0
Receipes	18 33.9	6 11.3
Double Postal Cards	17 32.0	7 13.2
Inventories	17 32.0	8 15.0
Typing Labels	17 52.0	10 18.8
Telegrams	16 30.1	9 16.9

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Thus the differences between those two columns are not large enough to conclude safely that the items in question are either necessary or unnecessary, but the figures indicate that these items are more unnecessary than necessary.

The remaining items on this chart represent a dichotomous situation.

The percentages were so evenly matched between the Necessary and Unnecessary columns that the deciding factor could be the figures in the Optional Material column. Hence, in order that a complete classification of each item could be made, a final tabulation of these items was constructed in Table XXIII.

From a comparison of the figures in Table XXIII, it may be seen that six of the items are, to a very slight degree, more necessary than unnecessary. Conversely, four items are unnecessary, and one item could be either necessary or unnecessary, with the figures evenly matched in both of the columns.

It was decided to combine the figures for the Necessary Content Material and Optional columns, and compare the total sum of those two with the figures contained in the Unnecessary Content Material column for the same items.

(See Table XXIV.) Thus, though the differences, in some cases, between the Necessary and Unnecessary columns may not be very great, the use of the figures in the Optional column to strengthen the Necessary column is justifiable. Figures in the Optional column consider the item not unnecessary to the course program, thus making it necessary to a limited degree.

Thus it may be seen from this table that the total of the Necessary and Optional columns substantially outweigh the Unnecessary column. This would indicate that under limited conditions the above items would tend to be

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TABLE XXIII

CONTENT MATERIAL ITEMS REPRESENTING A DICHOTOMOUS SITUATION

CONTENT MATERIAL	NE	CESSARY	UNNECESSARY		
	No.	Per Cent	No.	Per Cent	
Book References	20	37.7	10	18.8	
Book Reviews	20	37.7	7	15.2	
Codes of Ethics	18	33.9	16	30.1	
Checks	15	2813	18	33.9	
Programs	15	28.3	5	9.4	
Printers Proof	14	26.4	14	26.4	
Menus	13	24.5	11	20.7	
Stencils	13	24.5	11	20.7	
Receipts	12	22.6	16	30.1	
Poetry	11	20.7	14	26.4	
Headings for School Papers	9	16.9	11	20.7	
Play Dielogue	9	16.9	13	24.5	

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TABLE XXIV

NECESSARY CONTENT MATERIAL AND OPTIONAL MATERIAL

COLUMNS TOTALED AND THE UNNECESSARY FIGURES FOR THE SAME ITEMS

CONTENT MATERIAL	NE	CESSARY	OP	TIONAL		TOTAL	UNN	ECESSARY
	No.	Per Cent						
Book Reference .	20	37.7	16	30.1	36	67.8	10	18.8
Book Review	20	37.7	19	35.8	39	73.5	7	13.2
Codes of Ethics	18	33.9	14	26.4	32	60.3	16	30.1
Checks	15	28.3	17	32.0	32	60.3	18	33.9
Programs	15	28.3	29	54.7	44	83.0	5	9.4
Printers Proof .	14	26.4	23	43.3	37	69.7	14	26.4
Menus	13	24.5	26	49.0	39	73.5	11	20.7
Stencils	13	24.5	26	49.0	39	73.5	11	20.7
Receipts	12	22.6	21	39.6	33	62.2	16	30.1
Poetry	11	20.7	23	43.3	34	64.0	14	26.4
Headings for School Papers	9	16.9	30	56.6	39	73.5	11	20.7
Play Dialogue	9	16.9	27	50.9	36	67.8	13	24.5

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necessary. The limited conditions would include such factors as time, motivation, and need of individuals for that particular application of the typewriting skill.

A complete analysis of the second part to the questionnaire is included in Table XXV. Each item is checked in the column in which, according to the previous tables, it rightfully belongs. However, in the cases where the Optional Material column figures were used to strengthen the Necessary column, the words "Dichotomous" appear to denote that fact. This may be interpreted to mean that under certain conditions the items could be either necessary or unnecessary.

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TABLE XXV

A COMPLETE TABULATION OF THE 60 CONTENT MATERIAL ITEMS RATED NECESSARY OR UNNECESSARY ACCORDING TO THE DATA COMPILED

CONTENT MATERIAL	NECESSARY CON- TENT MATERIAL	UNNECESSARY CON- TENT MATERIAL
Addressing Envelopes	X	
Book Reference	Dichot	omous
Book Reviews	Dichot	comous
Business Letter (full-block)	X	
Business Letter (indented)	x	
Business Letter (semi-block)	x	
Carbon Copy	x	
Care of Machine	X	
Centering	X	
Characters not on Keyboard	X	
Checks	Dichot	omous
Codes of Ethics	Dichot	omous
Composing Themes at the Machine	x	
Crowding and Spacing Letters	X	
Determine Length of Writing Line	X	
Division of Words	x	
Double Postal Cards		x
Drafts		x
Erasing	X	
Figures and Symbols	X	
Folding Letters for Envelope Insertion	x	

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TABLE XXV (Continued)

CONTENT MATERIAL	NECESSARY CON- TENT MATERIAL	- UNNECESSARY CON- TENT MATERIAL
Grocery Lists		X
Headings for School Papers	Dick	notomous
Inventories		x
Invitations and Answers	X	
Jokes		x
Letters of Application	X	
Letters of More Than 1 Page	X	
Manuscripts	X	
Margin Control	X	
Menus	Dich	otomous
Minutes of Meetings	X	
Outlines	x	
Paragraphing	x	
Personal Notes and Letters	X	
Place Cards		x
Planning Arrangement of Letters	x	
Play Dialogue	Dich	otomous
Poetry	Dich	otomous
Postal Cards	x	
Posters		x
Printers Proof	Dich	otomous
Programs	Dich	otomous
Proofreading	X	

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TABLE XXV (Concluded)

CONTENT MATERIAL	NECESSARY CON- TENT MATERIAL	UNNECESSARY CON- TENT MATERIAL
Receipes		X
Receipts	Dichotomous	
Reinserting Paper	X	
Rough Drafts	X	
Spacing After Punctuation Narks	x	
Spacing Before and After Special Characters	X	
Stencils	Dichotomous	
Tables of Contents	X	
Tabulating	X	
Telegrams		X
Title Pages	X	
Typing Class Schedule Cards		X
Typing Labels		x
Typing on Ruled Lines	X	
Typing Themes	X	
Vertical Centering	X	

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CHAPTER V

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

This research study had for its purpose the following major objectives:

- 1. To determine the value of a typewriting course for non-business course students;
- 2. To determine the differences, if any, in the manner in which the subject was offered, and the content of the course between business and non-business typewriting courses;
- 3. To determine the placement of a non-business typewriting course in public secondary schools.

With those objectives in mind, a questionnaire was devised to serve as a tool for contributing actual data to this field. Thus, the following conclusions, based on this questionnaire, are presented under three main topics, which are the major objectives of this study.

CONCLUSIONS

I. What is the value in offering a typewriting program to non-business course students?

At the present time, the value of a program such as this lies with students who are preparing for college. For them the acquisition of this skill has meant better grades for typewritten papers, extra financial assistance while in college, and a vocational skill that they could utilize upon completion of high school or college.

It is true that many high school students who are enrolled in the college course fail to attend college after graduation for various reasons.

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- To determine the placement of a non-business typestiding course in schille secondary schools.

With those objectives in mind, a questionning was devised to corve as a tool for contributing actual date to this finish. Thus, the following conclusions, bened on this questionning, are presented under three main topics, which are the top to this alady.

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Many are forced to seek employment, and a knowledge of typewriting for those people is a practical asset by which they may earn a livlihood.

A specific example of the above circumstance was a city in the state of Vermont. The local high school offered typewriting to non-vocational people, but made no differentiation in training between the two. This city was the location of many large insurance companies. Those companies absorbed most of the business graduates, and some of the non-business graduates who possessed the ability to typewrite. Thus, it was to the advantage of both the school and the individual to be able to meet the requirements of businesses employing typists.

Further evidence of the value lies in the large amount of schools that have this course included in their curricula. One hundred and one of the 128 secondary schools to whom questionnaires were sent returned the questionnaire to the writer. Sixty-six of those schools had a course in type-writing for non-vocational students. The most general title under which it was offered was Typewriting I, closely followed by Personal Typewriting, Non-vocational Typewriting, General Typewriting, Typewriting for Non-commercial Majors, Typewriting for Personal Use, and a few others.

A variety of reasons were advanced for offering this course. Most of the teachers answering the questionnaire agreed that personal-use type-writing was of particular value to college students. The pressure exerted on the schools by the parents and students was an important factor for its inclusion in the curriculum. In some instances, superintendents and principals, who recognized the practical value involved, requested its inclusion in their schools.

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the various's anatomic the questionaries agreed test personal-rad typeerities was of pertinalar value to college students. The pronduce anarted as the example of the percets and examines was in important factor for its includent in the correlation. In some included, experimendents and origcipals, who recognised the profiled calms involved, requested the incluThe percentage of non-business students enrolled in this course was quite high in some cases, but, for the most part, ranged between 20 and 40 per cent. One unusual case was a school in which 90 per cent of the non-business course students were taking typewriting. Three typewriting classes each day were available for other than vocational students.

The fact that so many students had benefited from a course of this type further substantiated the value. Most of the proof of the value along this line came from personal contact between the teachers and the students, in that only seven of the 66 schools on which this data were based had conducted formal follow-up studies. One school was in the process of comducting a follow-up study at the time the questionnaire was returned.

It was interesting to note the value of a course such as this for the men and women who were in the armed services. Their ability to use the type-writer meant jobs more to their liking, and also qualified some for promotion.

The most frequent use of this skill in the high school period came in its adaptation to other courses. The students were able to typewrite themes, reports, and so forth, for many of their classes. The interest in this skill was so great in one school that the instructor reported that students practiced every free moment—free periods, lunch time, and after school. In still another school, the teacher instructed a class in personal—use typewriting after school, as an extra—curricula activity, because he did not have time available for those students during the ordinary school day.

Most teachers were of the opinion that the junior year was the best in which to offer this course. Some of the reasons for selecting this The street of the state of the state and probe the state of the state

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particular year centered around the opportunity the students would have for applying this skill during the senior year of high school. Only four teachers believed that the freshman year was the logical one, which would indicate a reluctance to offer personal-use typewriting below the sophomore year. The fact that only one person stated that any one of the four years would be adequate is indicative of a trend to stabilize the placement for this course. In general, the majority of the teachers were of the opinion that the junior or senior years were the times to offer students personal-use typewriting.

At the same time, a tally of the actual year or years in which this course was offered in the secondary schools revealed the senior year to be the most popular. However, one outstanding fact was the offering of this course any time during the freshman, sophomore, junior, or senior years, which seemed to be the policy at the time the survey was conducted.

The class time alloted to personal-use typewriting was an interesting fact. The majority of classes met five times a week for 40-minute periods. All schools but one conducted single periods, and in only one case did a school utilize the double period system, where the students were required to meet ten times each week.

Only two teachers did not give grades for personal-use typewriting.

This would be especially feasible if the student was allowed to drop out of the class after he acquired a sufficient amount of skill for his personal needs.

Personal typewriting students in over 60 per cent of the schools replying were allowed into advanced typewriting classes. This plan would not be too satisfactory if the business and non-business course typewriting particular form and a mother part of the approximate of the county to the form of the county of the

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classes contained different course content, and if the semesters of instruction differed.

In all schools but one, academic credit was allowed for satisfactory completion of the course. One-half point of academic credit was permitted in most of the schools, but that factor depended on the policy of the schools as to the amount of credit all the subjects were granted.

The non-business course students were not, in general, required to typewrite at the same rate of speed as were the business students. In some instances, however, the average speed of non-business course students was higher than that of the business students. The average for the former was 50 words per minute, and 35 for the latter.

Speed was secondary to accuracy, in the majority of cases, for personal-use typewriting. There was a great deal of controversy as to whether speed or accuracy should receive the initial stress, with considerable research on each side to support the contention. However, this study revealed that most schools did not stress speed until the technique of accuracy had been mastered to a certain degree.

Based on this study, the following items of content material for a personal-use typewriting course were classified under three main headings--Necessary Content Material, Optional Material, and Unnecessary Content Material.

Necessary Content Material:

The following items were considered necessary by the teachers answering the questionnaire. The degree of necessity ranged in percentage from 98.1 to 41.5. Only four of those items were rated below 50 per cent. However, the optional figures for those four items were large enough to warrant their

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being considered necessary. (See Table XIII.)

Addressing envelopes; business letters, full-block, semi-block, and indented; carbon copy; care of machine; centering; characters not on key-board; composing themes at the machine; crowding and spacing letters; determine length of writing line; division of words; erasing; figures and symbols; folding letters for envelope insertion; invitations and answers; letters of application; letters of more than 1 page; manuscripts; margin control; minutes of meetings; outlines; paragraphing; personal notes and letters; planning arrangement of letters; postal cards; proofreading; reinserting paper; rough drafts; spacing after punctuation marks; spacing before and after special characters; tables of contents; tabulating; title pages; typing on ruled lines; typing themes; and vertical centering.

Optional Material:

The following items were classified optional because of the even percentages between the optional and necessary columns. On that basis the item could not be classified either necessary or unnecessary. The deciding factor was the optional column. (See Table XIII.)

Book reference; book reviews; checks; codes of ethics; headings for school papers; menus; play dialogue; poetry; printers proof; programs; receipts; and stencils.

Unnecessary Content Material:

The following items were classified unnecessary by a large percentage of people, as compared to those who considered them necessary. (See Table XIII.)

Double postal cards; drafts; grocery lists; inventories; jokes; place cards; posters; receipes; telegrams; typing class schedule cards; and typing

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The following are definite conclusions regarding personal-use typewriting. These conclusions were reached through collaboration of research on the subject and the questionnaire involved in this study.

- 1. Personal-use typewriting is an accepted and valuable course in many public secondary schools.
- 2. There are very few courses under the title of "Personal-Use Typewriting," the most common title being Typewriting I.
- 3. It is considered more advantageous to offer this course in either the junior or senior year, and sometimes in the sophomore.
- 4. Speed does not seem to be as important an aspect of personal-use typewriting as does accuracy.
- 5. Single periods are preferred over double periods for personaluse typewriting.
- 6. In order to give a grade for this course, standards of attainment for all students enrolled should be set up, and a grade given upon satisfactory completion of those standards.
- 7. The allowance of academic credit also should be dependent upon the satisfactory attainment of specific course objectives. The amount of credit is entirely dependent on the policy of the school concerned.
- 8. Personal-use typewriting students should be allowed into advanced classes provided they have been instructed in approximately the same manner as vocational students, and provided there is enough equipment available for them.
- 9. Personal-use typewriting differs from vocational typewriting in content and amount of time devoted to it.

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- 10. However, personal-use typewriting may become vocational in that it is difficult, if not impossible, to prognosticate the non-business course students who will adapt this skill vocationally.
- ll. The greatest advantage of personal-use typewriting, at the present time, lies with the college preparatory high school students.
- 12. Every student who so desires should have an opportunity to learn typewriting regardless of the type of course he is pursuing in high school.

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RECOMMENDATIONS FOR FURTHER STUDY

Not until a more comprehensive and wider geographical study of this subject is made will specific conclusions and recommendations be justified. Generalizations may be assumed, but personal-use typewriting courses, as offered at the present time, differ markedly in administration, aims, content, and time devoted to it.

The following are a few recommendations for further study in this area:

- 1. A re-survey of the group involved in this study is recommended to determine the actual content material taught during the school year, 1947-1948; also whether the course took one semester or two, or longer. Thus, such a comparison would point out specific data for the standardization of content material for a one or two semester personal-use typewriting course.
- 2. Surveys of other areas of the United States, similar to this study made in New England, are recommended to determine the extent to which personal-use typewriting is taught throughout the country. An objective analysis of the data from those studies should produce significant results.
- 3. A survey is recommended of the offering of personal-use typewriting in the junior high schools, grades 7, 8, and 9, bearing in mind such factors as were considered by this study.

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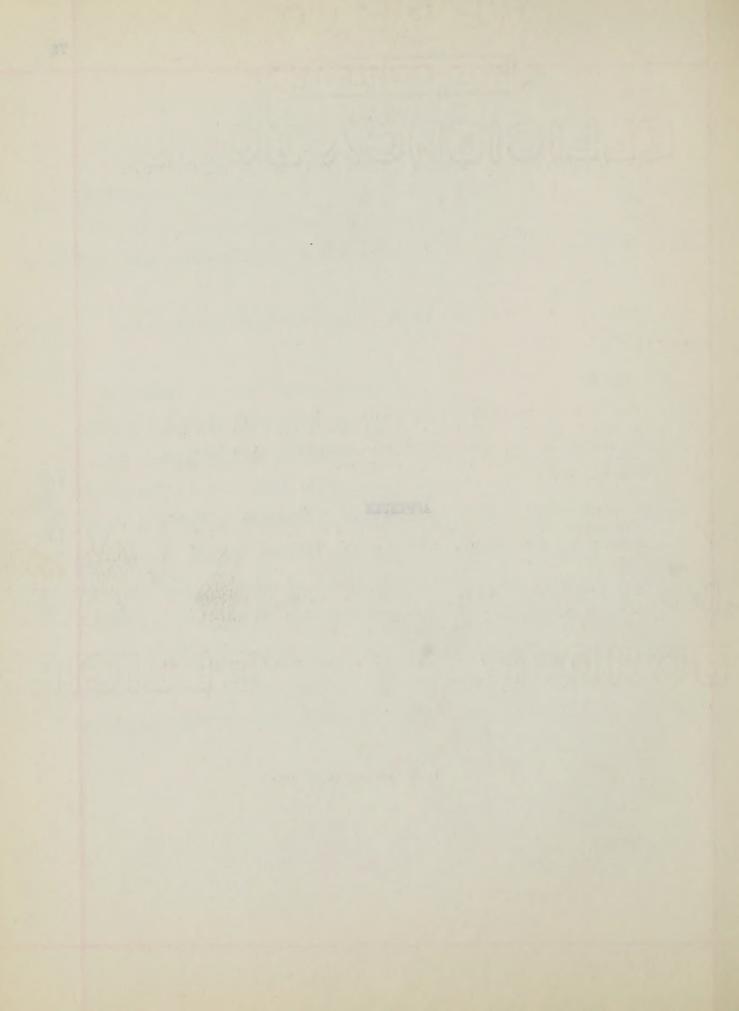
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APPENDIX



APPENDIX A

LETTER SENT TO 128 SELECTED SECONDARY SCHOOLS
THROUGHOUT NEW ENGLAND EXPLAINING THE PURPOSE OF THE QUESTIONNAIRE

December 29, 1947

Business Department Director

Dear Sir:

There is considerable discussion as to the relative merits of personal-use typewriting in the public secondary schools of today. I am attempting to analyze personal-use typewriting programs in selected secondary schools throughout New England.

If your answer to the first question is "No" kindly indicate that and return the questionnaire to me. If it is "Yes" please fill out the questionnaire and return it to me by January 10, 1948.

The information that you offer will be kept confidential. Also, I shall be glad to send a summary of my findings to you if you are interested in having it.

Your help will prove of great assistance in the research work that I am conducting.

Yours truly,

(Miss) Meredith F. Drew

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APPENDIX B PERSONAL-USE TYPEWRITING COURSE QUESTIONNAIRE

Name	of SchoolA	ddress
Name	T.	itle
1.	Do you offer a typewriting program : your high school?	for non-business course students in
2.	If so, underline the title under whi Personal Typewriting General Typewriting	ich the course is listed:
	Non-vocational Typewriting Personalized Typewriting Typewriting for Non-commercial Mag Typewriting I Any other title under which it is	
3.	What percentage of non-business courseiting?	rse students are taking type-
4.	Underline the year in which the course students. Freshman, Sophomos that fits into their program.	
5.	In what year do you consider it most to non-business course students?	t advantageous to offer this course
6.	Average speed attained at end of year Business course students Non-business course students	MARKET BERNELLE BON-SOUTHORS
7.	To what extent is speed stressed for (Feel free to comment on both 7 and	
8.	To what extent is accuracy stressed	for non-business course pupils?
9.	Business Course Students: Class periods per week students me Length of periods: Single periods: Double periods:	eet:

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APPENDIX B (Concluded)

9.	(Continued from previous page) Non-business Course Students: Class periods per week students meet: Length of periods: Single periods: Double periods:
	Is a grade given to non-business course students in typewriting? Factors on which it is based.
	Are students from non-business course typewriting classes ever admitted to advanced typewriting classes? If so, under what conditions?
12.	How much academic credit is given for non-business course type- writing?
13.	Reason or reasons for offering this course in your high school.
14.	Have the above reasons ever been substantiated by your non-business course students either by means of a follow-up study, personal interview, etc? Please explain.

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APPENDIX B-PART II

Please check the following content material. For example, if you feel that centering is a necessary part of a non-business course typewriting program, check the column headed "Necessary Content Material"; if you feel that it is not of paramount importance yet not unnecessary to the course, check the column headed "Optional Material"; if you feel that centering is totally unnecessary to a typewriting program of this kind, check the column headed "Unnecessary Content Material."

	CONTENT MATERIAL	NECESSARY CON- TENT MATERIAL	OPTIONAL MATERIAL	UNNECESSARY CON- TENT MATERIAL
1.	Addressing envelopes			
	Book reference			
3.	Book reviews			
	Business letter (full-block)			
	Business letter (indented)			
	Business letter (semi-block)			
	Carbon Copy			
	Care of machine			
	Centering			
	Characters not on keyboard Checks			
	Codes of ethics			
	Composing themes at the			
1)0	machine			
14.	Crowding and spacing letters			
	Determine length of writing			
	line			
16.	Division of words			
17.	Double postal cards			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Drafts			
	Figures and symbols			
	Erasing			
	Grocery lists			
	Headings for school papers			
The Control of the Co	Inventories			
1	Invitations and answers Jokes			
The second second	Letters of application			
	Letters of more than 1 page			
	Manuscripts			
	Margin control			
	Menus			
11	Minutes of meetings			
32.	Outlines			
	Paragraphing			
1000	Personal notes and letters			
	Place cards			
36.	Planning arrangement of letters			

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APPENDIX B-Part II (Concluded)

	CONTENT MATERIAL	NECESSARY TENT MATER	4.00	OPTIONAL MATERIAL		ESSARY MATERI	
37.	Play dialogue						
	Poetry						
39.	Postal cards						
	Posters						
	Printers Proof						
	Programs						
	Proofreeding				***************************************		
	Receipes					-	
	Receipts Reinserting paper					-	-
	Rough drafts						
	Spacing after punctuation marks						
	Stencils			****			
50.	Tables of Contents						
51.	Tabulating						
	Telegrams						
	Title pages						
	Typing class schedule cards						
	Typing labels						-
	Typing on ruled lines				*******		
	Typing themes						
	Vertical centering Folding letters for envelope	,					
03.	insertion						
60.	Spacing before and after						
	special characters						

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APPENDIX C

FOLLOW-UP LETTER

January 19, 1948

Business Department Director

Dear Sir:

Recently I sent you a questionnaire on personal-use typewriting. In all probability it was misplaced during the busy days following the vacation period. Therefore, since I have received no reply from your school, I am enclosing another questionnaire, plus a self-addressed envelope for your convenience in returning it to me.

The primary purpose behind this study is to correlate facts basic to the position of personal-use typewriting in the business department of the secondary school. The return of this questionnaire, whether or not the course is included in your department, will prove very valuable in tabulating the results of this study.

I realize that your time is quite occupied with school duties for the present, but I would appreciate your cooperation in returning the questionnaire to me by January 28 in order that the statistics for this study may be compiled as soon as possible.

Sincerely yours,

(Miss) Meredith F. Drew

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APPENDIX D

PUBLIC SECONDARY SCHOOLS USED IN THIS STUDY

SECONDARY SCHOOL

LOCATION

CONNECTICUT

Ansonia High School Bristol High School Darien High School East Hartford High School Enfield High School Glastonbury High School Hamden High School Meriden High School Milford High School Naugatuck High School New Britain Senior High School New Canaan High School Norwalk High School Norwich High School Plainville High School Putnam High School Seymour High School Simsbury High School Stamford High School Torrington High School Watertown High School West Haven High School Wethersfield High School

Ansonia Bristol Darien East Hartford Enfield Glastonbury Hamden Meriden Milford Naugatuck New Britain New Cansan Norwalk Norwich Plainville Putnam Seymour Simsbury Stamford Torrington Watertown West Haven Wethersfield Windsor

MAINE

Auburn High School Augusta High School Bangor High School Bath High School Belfast High School Biddeford High School Brewer High School Brunswick High School Calais High School Caribou High School Deering High School Gardiner High School Houlton High School Lewiston High School Millinocket High School Old Town High School

Windsor High School

Auburn Augusta Bangor Bath Belfast Biddeford Brewer Brunswick Calais Caribou Portland Gardiner Houlton Lewiston Millinocket Old Town

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APPENDIX D (Continued)

SECONDARY SCHOOL

MAINE

Portland High School
Presque Isle High School
Rockland High School
Runford High School
Sunford High School
South Portland High School
Skowhegan High School
Thornton Academy
Traip Academy
Van Buren High School
Waterville High School
Westbrook High School

MASSACHUSETTS

Amesbury High School Athol High School Barnstable High School Belmont High School Bridgewater High School Chelmsford High School Concord High School Dracut High School Fairhaven High School Framingham High School Grafton High School Hingham High School Leominster High School Maynard High School Melrose High School Monson High School Natick High School Newburyport High School North Attleboro High School Orange High School Revere High School Shrewsbury High School Spencer High School Taunton High School Walpele High School Watertown High School Westfield High School Winchendon High School

LOCATION

Portland
Presque Isle
Rockland
Runford
Sanford
South Portland
Skowhegan
Saco
Kittery
Van Buren
Waterville
Westbrook

Amesbury Athol Hyannis Belmont Bridgewater Chelmsford Concord Dracut Fairhaven Framingham Grafton Hingham Leominster Maynard Melrose Monson Natick Newburyport North Attleboro Orange Revere Shrewsbury Spencer Taunton . Walpole Watertown Westfield

APPENDIX D (Continued)

SECONDARY SCHOOL

NEW HAMPSHIRE

Berlin High School Central High School Claremont High School Concord High School Derry High School Dover High School Exeter High School Franklin High School Keene High School Laconia High School Lebanon High School Nashua High School Portsmouth High School Rochester High School Somersworth High School Towle High School West High School West High School

Berlin Manchester Claremont Concord Derry Dover Exeter Franklin Keene Laconia Lebanon Nashua Portsmouth Rochester Somersworth Newport Lebanon Manchester

LOCATION

RHODE ISLAND

Barrington High School Bristol Senior High School Burrillville High School Central Falls High School Coventry High School Cranston High School Cumberland High School East High School East Providence High School Lincoln High School (No high school-just junior high) Newport High School North Providence High School South Kingstown High School Tiverton High School Warren High School West High School West Warwick High School Westerly High School Woonsocket High School Warwick High School

Barrington
Bristol
Burrillville
Central Falls
Coventry
Cranston
Cumberland
Pawtucket
East Providence
Lincoln

Newport
North Providence
Wakefield
Tiverton
Warren
Pawtucket
West Warwick
Westerly
Woonsocket
Warwick

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APPENDIX D (Concluded)

SECONDARY SCHOOL

LOCATION

VERMONT

Barre High School
Bennington High School
Brattleboro High School
Burlington High School
Montpelier High School
Rutland High School
Springfield High School
St. Albans High School
Vocational High School
Winooski High School

Barre
Bennington
Brattleboro
Burlington
Montpelier
Rutland
Springfield
St. Albans
St. Johnsbury
Winooski

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APPENDIX E

SCHOOLS RESPONDING TO THE QUESTIONNAIRE

CONNECTICUT:

Bristol High School Darien High School East Hartford High School Enfield High School Hamden High School Meriden High School Milford High School Naugatuck High School New Britain Senior High School New Canaan High School Norwalk High School Plainville High School Putnam High School Seymour High School Simsbury High School Stamford High School Torrington High School West Haven High School Wethersfield High School Windsor High School

MAINE:

Auburn High School Augusta High School Bangor High School Bath High School Belfast High School Biddeford High School Brunswick High School Calais High School Deering High School Houlton High School Lewiston High School Millinocket High School Old Town High School Portland High School Rockland High School Runford High School Skowhegan High School South Portland High School Thornton Academy Traip Academy Van Buren High School Waterville High School Westbrook High School

MASSACHUSETTS:

Amesbury High School Athol High School Barnstable High School Belmont High School Chelmsford High School Concord High School Dracut High School Fairhaven High School Framingham High School Hingham High School Leominster High School Maynard High School Melrose High School Natick High School Newburyport High School North Attleboro High School Orange High School Shrewsbury High School Taunton High School Walpole High School Watertown High School Westfield High School Winchendon High School

NEW HAMPSHIRE:

Berlin High School
Central High School
Concord High School
Derry High School
Dover High School
Franklin High School
Keene High School
Laconia High School
Lebanon High School
Portsmouth High School
Somersworth High School
Towle High School
West High School—Lebanon
West High School—Manchester

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APPENDIX E (Concluded)

RHODE ISLAND:

Barrington High School
Central Falls High School
Coventry High School
Cranston High School
Cumberland High School
East High School—Pawtucket
Lincoln High School (Junior High)
Newport High School
North Providence High School
South Kingstown High School
West High School—Pawtucket
Westerly High School
Woonsocket High School

VERMONT:

Barre High School
Bennington High School
Brattleboro High School
Montpelier High School
Rutland High School
Springfield High School
St. Albans High School
Vocational High School—St. Johnsbury

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APPENDIX F

SECONDARY SCHOOLS OFFERING PERSONAL-USE TYPEWRITING

CONNECTICUT:

Bristol High School Darien High School East Hartford High School Hamden High School Milford High School Naugatuck High School New Britain Senior High School Plainville High School Putnam High School Seymour High School Simsbury High School (Incomplete Questionnaire) Stamford High School West Haven High School Wethersfield High School Windsor High School

MAINE:

Bangor High School

(Incomplete Questionnaire)

Biddeford High School

Brunswick High School

Calais High School

Houlton High School

Lewiston High School

Old Town High School

Portland High School

Runford High School

Skowhegan High School

Thornton Academy

(Incomplete Questionnaire)

Van Buren High School

Westbrook High School

MASSACHUSETTS:

Amesbury High School
Barnstable High School
Belmont High School
Chelmsford High School
Concord High School
Dracut High School
Framingham High School
Hingham High School

MASSACHUSETTS:

Leominster High School
Maynard High School
Melrose High School
Natick High School
(Incomplete Questionnaire)
Newburyport High School
North Attleboro High School
Crange High School
Shrewsbury High School
Spencer High School
Taunton High School
Walpole High School
Watertown High School
Westfield High School

NEW HAMPSHIRE:

Berlin High School
Derry High School
Franklin High School
Keene High School
Laconia High School
Lebanon High School
Portsmouth High School
Somersworth High School
Towle High School

RHODE ISLAND:

Barrington High School Central Falls High School Granston High School North Providence High School South Kingstown High School

VERMONT:

Bennington High School Brattleboro High School Montpelier High School Springfield High School St. Albans High School

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Ones, Natherine to "A four-Year Sullew-Up City of the Commercial Siri-Students of Juny 1977, of the Malifeste Senter High Johnson." The published Surtures Tanaley Souther University, Spinel of Education, 1985.

Door, S., and Appel, W. "Now Sense for Probleming Sypho, Sections." decreal of Inches Secretion. Vol. 371 pp. 17-18, Sensey, 1841.

Disen, G. S. "A Drillers of Proposal Cos Typowriting." Extraplications.

BIBLIOGRAPHY

Probling I. "Spand, Agentung, and Remailed Probling," Desirge Marine

Despuis to the "Commercial Education for the Saint," Unjudition Serior's Descie, Serior University, College of Santabase Administration, 1986.

Cook, C. V. Hardenser of Education, McGraw-Sill State Convey, San-

Marine, J. L. Marray of Commercial Suntables in Public Sciences Statute in College Section Statute in Science Statute of Statute in Statute in

Detail on Company, New York, 1888.

Helly, Makes J. "Communical Education in Marcachusetto High Schools,"

House, F. "Commercial Corrigate in the Hannahamette High Colonia in 1885-1881 Commission Master's Tanala, Dogwe University, Scient of 1885-1881 Libbs

BIBLIOGRAPHY

- Berriman, Jane. "Personalizing Typewriting." Fourteenth Yearbook, Eastern Commercial Teachers Association, 1941.
- Blackstone, E. G., and Yerian, C. T. Typewriting for Personal Use. The Gregg Publishing Company, Boston, 1937.
- Blanchard, C. I., and Smith, H. H. Typing for Business and Personal Use. The Gregg Publishing Company, Boston, 1946.
- Burns, M. A. "Typewriter in Business." Unpublished Master's Thesis, Boston University, College of Business Administration, 1938.
- Coan, Katherine T. "A Four-Year Follow-Up Study of the Commercial Girl Graduates of June, 1927, of the Baltimore Senior High Schools." Unpublished Master's Thesis, Boston University, School of Education, 1953.
- Cook, W., and Appel, M. "New Bases for Predicting Typing Success."

 Journal of Business Education. Vol. XVI. pp. 17-18, January, 1941.
- Damon, G. E. "A Critique of Personal Use Typewriting." Journal of Business Education. Vol. XVI. pp. 19-20, June, 1941.
- Ehnes, C. W. "Typewriting for All High School Students." Journal of Business Education. September, 1947. p. 19.
- Franklin, E. "Speed, Accuracy, and Remedial Practice." Business Education World. Vol. XXV. pp. 18-21, September, 1944.
- Geiger, L. L. "Commercial Education for the Blind." Unpublished Master's Thesis, Boston University, College of Business Administration, 1935.
- Good, C. V. <u>Dictionary of Education</u>. McGraw-Hill Book Company, Inc., New York, 1945.
- Higgins, J. L. "Survey of Commercial Education in Public Secondary Schools in Connecticut." Unpublished Master's Thesis, Boston University, School of Education, 1932.
- Kahn, J., and Kleip, J. L. Principles and Methods in Commercial Education.
 Macwillan Company, New York, 1923.
- Keily, Helen J. "Commercial Education in Massachusetts High Schools."

 Balance Sheet. Vol. XXVIII. pp. 259-263, February, 1947.
- Keough, P. "Commercial Curricula in the Massachusetts High Schools in 1932-1933." Unpublished Master's Thesis, Boston University, School of Education, 1934.

Franks . Land Constitution, T. C., and Youther, C. T. International of the second of the second second of the second of the second of the second of the second of Undergrand, O. T., 'and deline, D. in Paris, lies The contract of the season of bernd, B. J. William Milliams. Uniqued land the Total and the training the states . His on deliveration, police or delicate the later than 1968. Confined at land, hill, or the Salataner tenter out to see the Co-. Sell taled Macrott Tearle, Seated Willes thing added of Longitton, 1955. The state of the s to appearing. Vol. XVI. No. IV-12, James vy, 1201. Conserve. I. was continued by Personal Inc. Stay to the Land Stay to the Conserve Stay to the westling, Vol. 17. 18. 18-10, July . mobilish And the state of t and the state of t the hope of the same of the sa of the organization of the state of the stat . The loss of the little of the boy of the last transfer, lott. Topico. V. Distance in the close, Reference Lie & the Congress, Luc., the state of the s Decided it. I. Where of Commercial Ministry is Public Secondary Science I copy the Continuence of the Land of the ter to the Land of the Continuence of the Land o of languages and the second se to the particle of the particl

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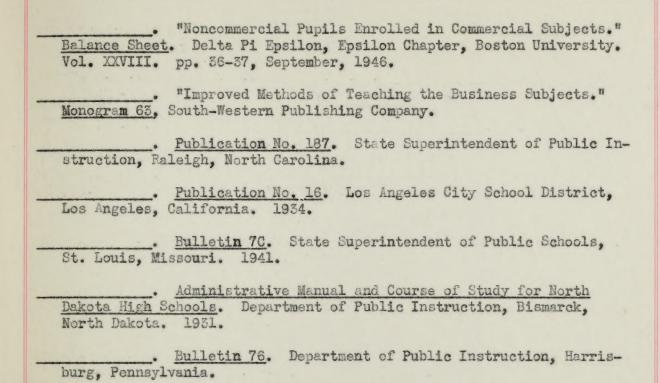
Estate and the Attill to the action of the a

Today, P. "Commodist Correctle in the Markette States Delivered by School of Course Delvers Delvers Colors of Course Delvers D

- Lifton, M. "Stenography and Typing for Personal Use." High Points. February, 1943. pp. 66-70.
- Lomax, P. S., Reynolds, H., and Ely, M. H. Problems of Teaching Typewriting. Prentice-Hall Company, New York, 1935.
- Nichols, F. G. Commercial Education in the High School. D. Appleton-Century Company, New York, 1933.
- Osborne, Agnes. "An Evaluation of Shorthand and Typewriting for Personal Use." Unpublished Master's Thesis, Teachers College, Columbia University, New York, 1934.
- Query, Leo J. "Commercial Education in the Civilian Conservation Corps." Unpublished Master's Thesis, Boston University, School of Education, 1938.
- Reddick, L. D. "The Last of Longhand." School & Society. Vol. XXXVIII. p. 708, November 25, 1933.
- Reynolds, R. G. "The Typewriter—An Aid to Self-Expression." Child Welfare. Vol. XXIII. pp. 8-11, September, 1933.
- Scholl, Charlotte M. "A Study of the Personal Use of the Typewriter." Unpublished Master's Thesis, State College of Education, Greeley, Colorado, 1937.
- Thompson, F. V. Commercial Education in Public Secondary Schools. World Book Company, Hastings-On-Hudson, New York, 1916.
- Tonne, Herbert. "What Administrators Think About Shorthand and Type-writing." Journal of Business Education. pp. 19-21, December, 1947.
- Watson, D. E. "An Analysis of First-Draft Typewritten Compositions of Seventh and Eighth Grade Typists." Unpublished Report, University of Chicago, 1940.
- Wood, B. D., and Freeman, F. W. An Experimental Study of the Educational Influences of the Typewriter in the Elementary Classroom. Macmillan Company, New York, 1932.
- Walters, R. G. "Will the Commercial Department Keep Social-Business Subjects In It?" Balance Sheet. Vol. XVI. pp. 9-12, September, 1934.
- . The Story of the Typewriter. Herkimer County Historical Society, Herkimer, New York, 1923.

- Larges, E. "Stemography and Typing for Staymont Date." His raining.
- Loren, J. F., Septidder, N., and May N. H. Printeds of Contilla Tion-
- Microlle, F. G. Commented Discouler in the Lateries H. Colleton-
- Uncertaint Land. "in Installation of Standard and Tentheliting Columnia Under Uncertainty, Standard Under Un
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- related to the transfer of Longians." Edge! tedeclare. Val. January co. J. J. January Co. January Co.
- Negrolds, E. S. The Typersiter-on and to Ball-Driverston." 'hill hel-
 - School, Charlotte H. "A Study of the Personal Use of the Spraviler." Capabilizated danter's Turnin, State College of Buidellon, Creater, Colorede, 1887.
- Transpoor, J. V. Commental November to Table Compley Science, Vorld
- Tours, Burtant, "That administrations Fields Joseph of Type-
- To wond in the Analysis of Marchaelt Typestates Compared to the Compared to th
- Today, E. D., and Steemen, F. R. An Expendenced Rude of the Marchand.

 Industrial Marchand Community Commu
- Tailors, L. G. "Hill the Commencial Department Asso Control of the College of the Land of
- Socialty Heritage, New York, 1985.



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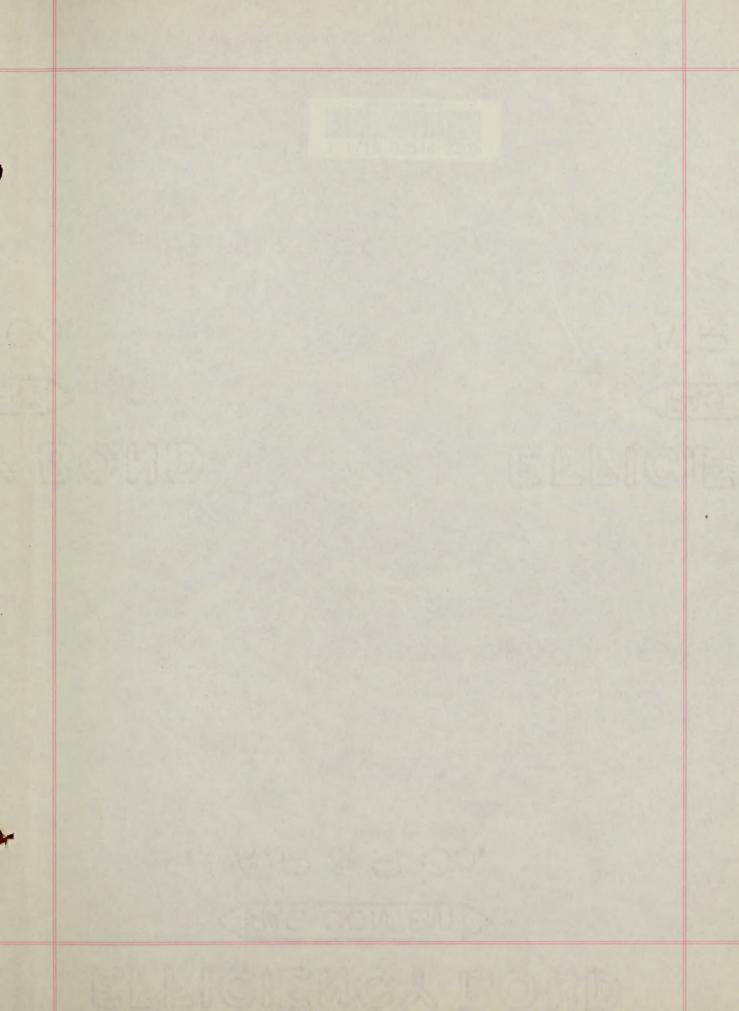
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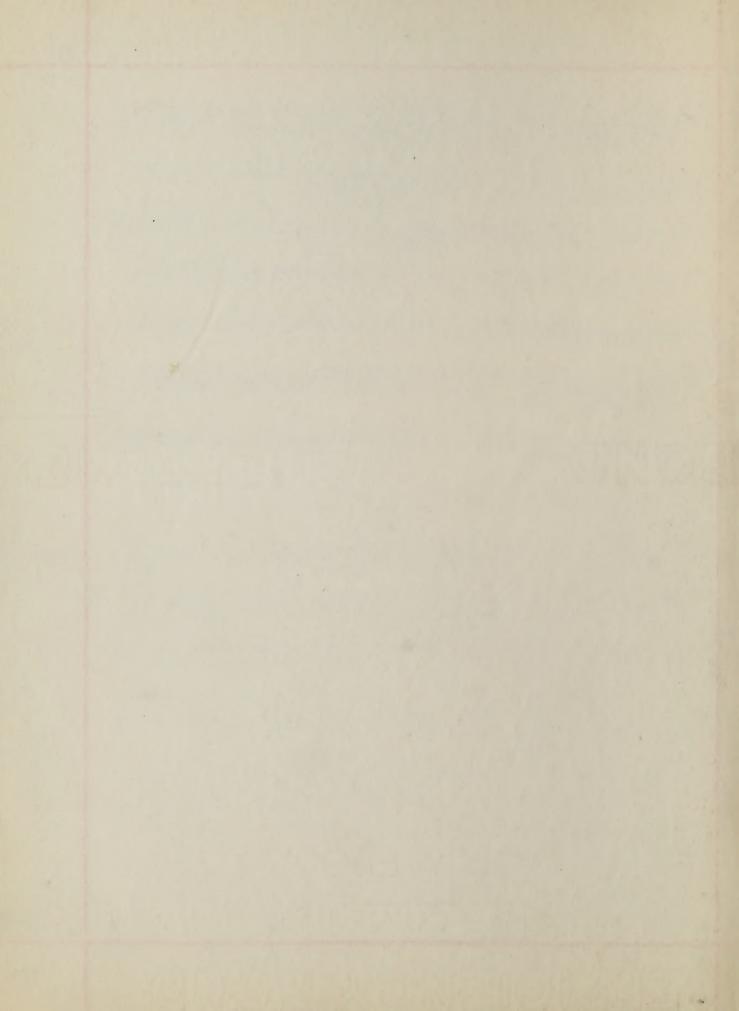
Los angeles, California, 1801.

The Louis, Minneyer, 1941.

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